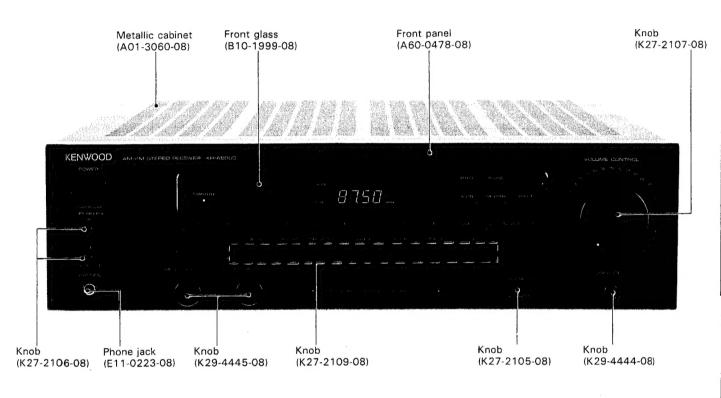
AM-FM STEREO RECEIVER

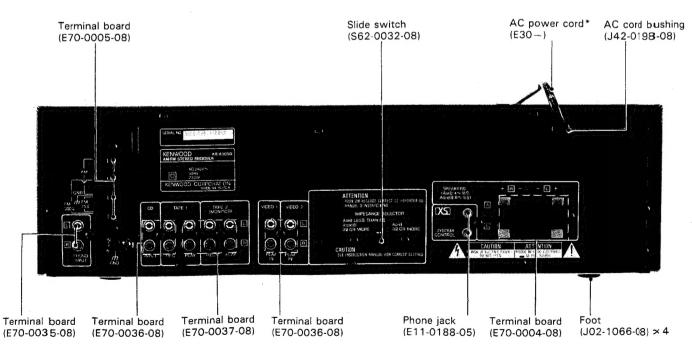
KR-A4050/5050 SERVICE MANUAL

KENWOOD

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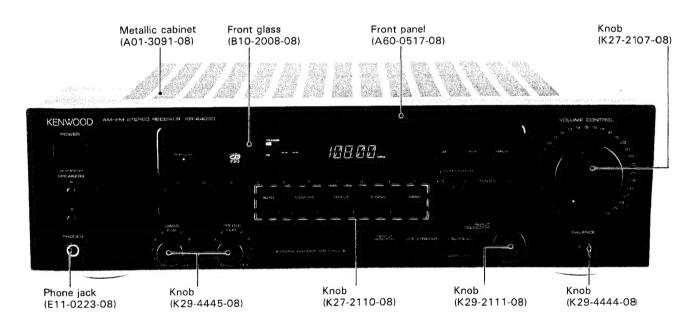
(KR-A5050 K, P, M, X Type)

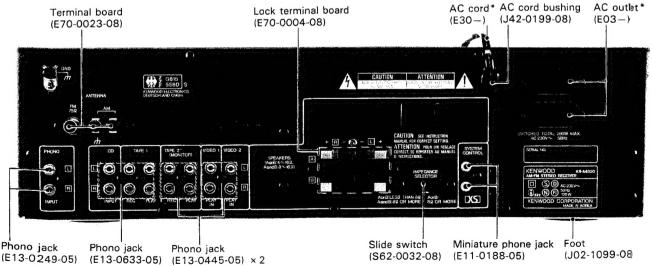




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L	U	IV		IV	TS	•

REMOTE CONTROL OPERATION4	BLOCK DIAGRAM4
DISASSEMBLY FOR REPAIR5	CIRCUIT DESCRIPTION45
BLOCK DIAGLAM 7	ADJUSTMENT 53
CIRCUIT DESCRIPTION 9	REGLAGE 54
ADJUSTMENT 12	ABGLEICH 55
REGLAGE 13	ADJUSTMENT/REGLAGE/ABGLEICH 56
ABGLEICH14	WIRING DIAGRAM5
WIRING DIAGRAM 15	PC BOAD (Component side view)59
PC BOARD (Component side view)17	SCHEMATIC DIAGRAM63
SCHEMATIC DIAGRAM23	EXPLODED VIEW (UNIT)75
EXPLODED VIEW (UNIT)31	PARTS LIST 7
PARTS LIST 33	SPECIFICATIONS (K, P type)8
CONTROL & INDICATORS37	SPECIFICATIONS (E type)BACK COVE
DISASSEMBCY FOR REPAIR39	
(KR-A4050 F. Tyne)	

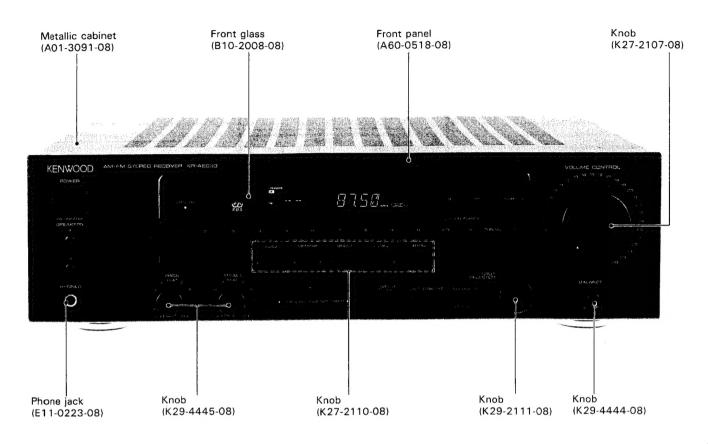


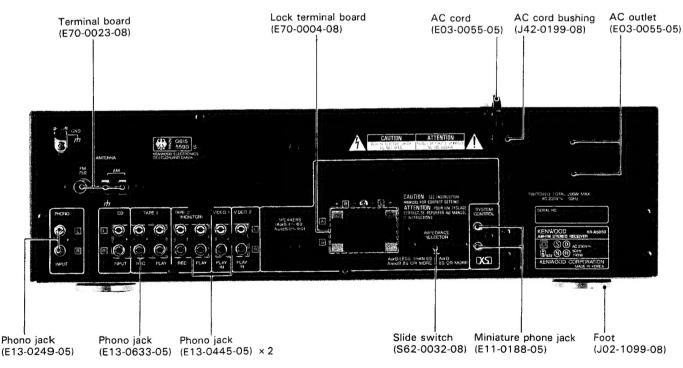


KR-A4050/5050 E

KR-A4050/5050

(KR-A5050 E,T Type)



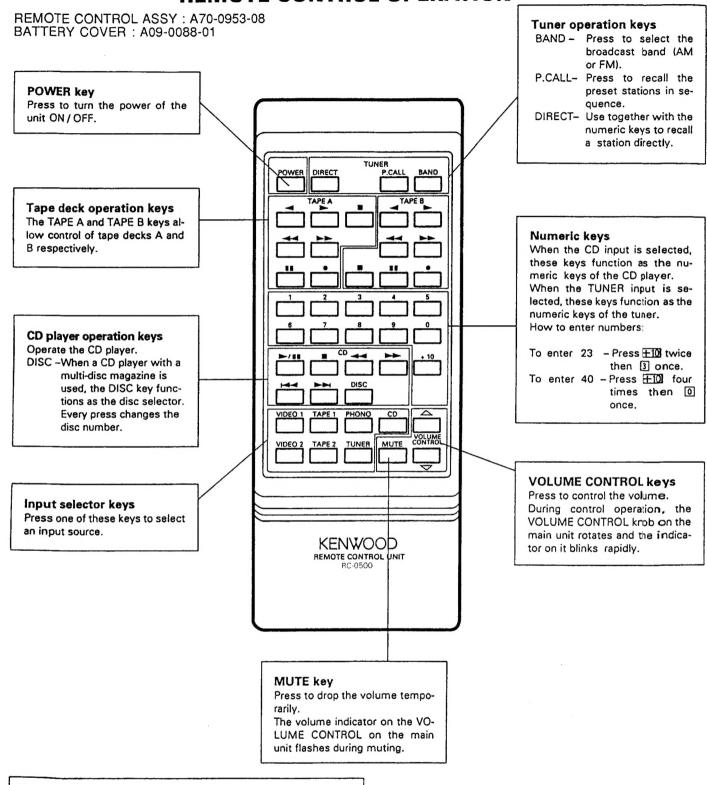


(E, T) (K, P) INSTRUCTION MANUAL INSTRUCTION MANUAL **ENGLISH** B60-1286-08 **SPANISH** B60-1213-08 FRENCH B60-1214-08 B60-1287-08 **ENGLISH** SPA, CHI B60-1288-08 M B60-1215-08 FR, GE, DU

Ε

Ε

REMOTE CONTROL OPERATION



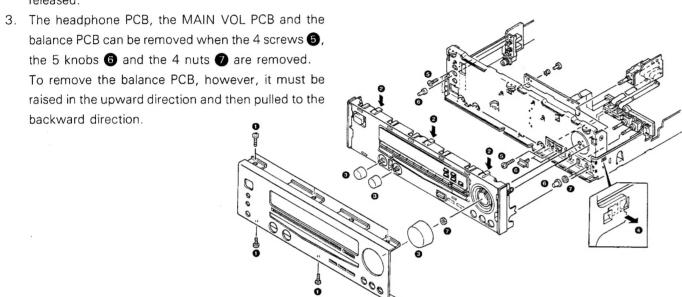
Note on remote control unit

- In case any of the following models is used, the CD manual search cannot be operated from this remote cojntrol unit: DP-M97, DP-57, DP-47
- If the CD player is not equipped with the System control jack, it cannot be operated properly from this remote control unit.
 In such a case, please use the remote control unit provided with the CD player.

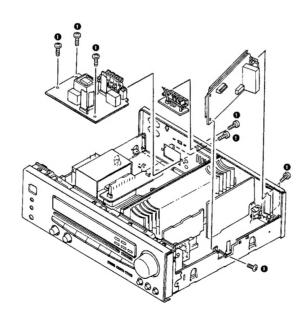
KR-A5050 K, P

KR-A4050/5050 DISASSEMBLY FOR REPAIR

- 1. Remove the 6 screws ①, and the pull out the front panel out while pressing the 3 claws ② to remove the front panel.
 - The sub-panel can be removed when the 3 knobs
 are removed and the undo the 2 claws



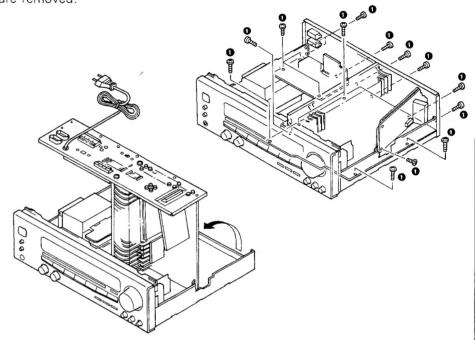
The tuner PCB, the power supply PCB and the surround PCB can be removed when the 8 screws
 are removed.



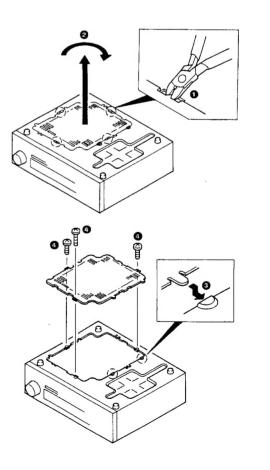
KR-A4050/5050 DISASSEMBLY FOR REPAIR

Repair can be carried out with the MAIN (AUDIO)
 PCB and the power supply PCB mounted on the rear panel when the 18 screws

 are removed.

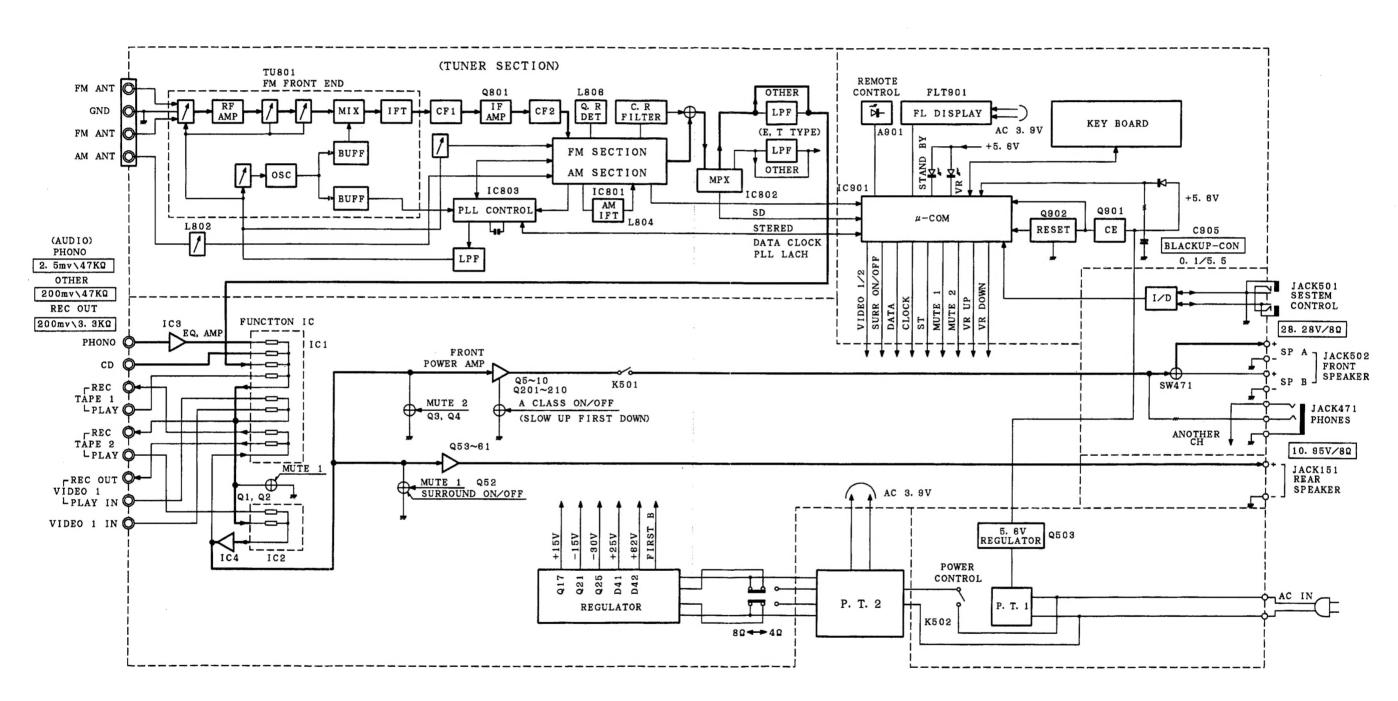


- Cut the 4 places with a pair of nippers. 1, and remove the bottom panel from chassis.
- 2. Move the unit holder from the current position to the open mounting position.
- 3. Rotate the lid, which was cut off, by 180° degrees 2.
- 4. Insert the lids in the 2 places of the chassis 3, and mount them with the 3 screws 4.



5

KR-A4050/5050 KR-A4050/5050 BLOCK DIAGRAM



KR-A5050 (K, P, M, X TYPE)

7

CIRCUIT DESCRIPTION

1-1. Initial Setting 1) Function initial setting

i/ i diletion initial section	
Last channel memory	FM: 87.5MHz
	AM (K): 530kHz
	AM (E): 531kHz
Tuning mode	
Band	
Input selector	Tuner
Video monitor	VIDEO 1
TAPE 2 monitor	
Muting	OFF
Power	OFF

Frequency memorized for each PRESET channel when the memory is cleared (Test frequency)

BAND	FM1		FN	12	AM		
ch	K	Е	K	Ę	K	E	
1	87.5MHz	87.5MHz	87.5MHz	87.5MHz	530KHz	531KHz	
2	89.1	89.1	//	"	630	630	
3	90.0	90.0	//	"	990	990	
4	92.0	92.0	//	11	1440	1440	
5	94.0	94.0	//	//	1610	1602	
6	98.0	98.0	//	//	1700*	531	
7	100.1	100.1	//	"	530	531	
8	102.0	102.0	11	//	530	531	
9	106.0	106.0	//	//	530	531	
10	108.0	108.0	"	//	530	531	

^{* 1700} kHz is set for WIDE only.

2) Microprocessor output port initial setting

Any figure in () is a pin number.
SURROUND MUTE (17)L
VOL. LED (18) L
VIDEO 1/2 (23) L
POWER (24) L
MUTE 1 (25) H
MUTE 2 (26) H
CDDL (27) H
VOL. DOWN (1)L
VOL. UP (63)L

The initial setting is performed in a following event:

- 1. When backup memory data is destroyed when reset is applied to the microprocessor.
- When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

1-2. Test Mode Setting

1) Method of entering the test mode

 While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights.

2) Method of canceling the test mode

- 1. Unplug the power cord from the AC wall outlet once.
- 2. Send the reset signal to the RESET pin or some other means to reset the microprocessor.

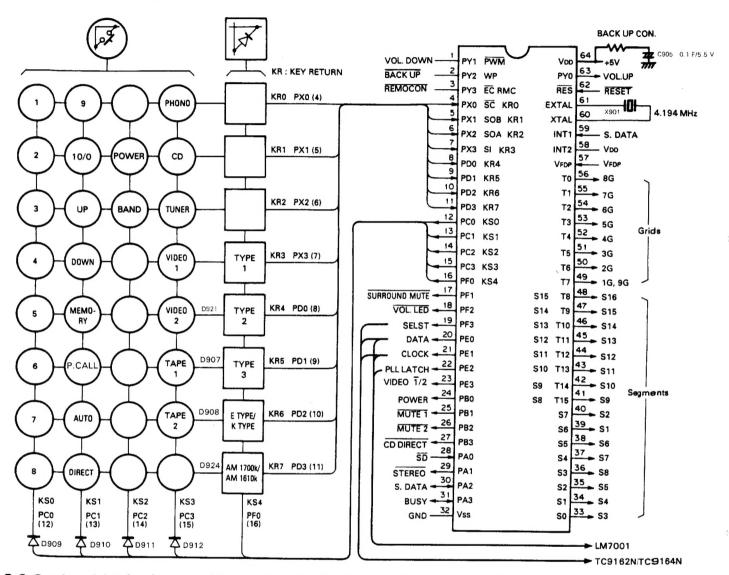
3) Contents of test mode

- When the test mode is entered, the FL tube display all lights. This all lighting continues unless a effective remote control serial code or the test mode is canceled.
- 2. The test frequency is stored in memory for each preset channel. (For each frequency to be stored in memory, refer to its associated listing.)
- 3. The test mode is different from the normal mode in the following operations:

When the tuner UP or DOWN key is pressed when a mode other than TUNER has been selected, the potentiometer is increased or decreased. Once one of these keys has been pressed, the operation continues even if the key is released. It stops automatically if the AUTO or POWER key is pressed or if the AUTO or POWER key is not pressed for 16 seconds.

CIRCUIT DESCRIPTION

- 2. CXP5016-526S: Receiver microprocessor (X14-3040-10: IC1)
- 2-1. Key matrix connections



2-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix. In the following, "1" means "with diodes" and "0", "without diodes"

1) Model Set SW (TYPE2: D921, TYPE 3: D907)

Model set SW			Function					
TYPE 1	TYPE 2	TYPE 3	MODEL	TUNER BAND	DOLBY SURROUND	VOL. CONT with Motor	Switched VIDEO1, 2	REMOCON
0	0	1	KR-V5550	rFM1→FM2→AM¬	Provided	Provided	Provided	Provided
	1	0	KR-A5050 (EXCEPT E TYPE)	t	Not provided	t	Not provided	t

CIRCUIT DESCRIPTION (Except E, T type)

2) Destination set SW: E type/K type (D908 to Q903)

Destination set SW	Desti- nation	BAND	Reception frequency band		Reference frequency	
		FM	87.5~108.0 MHz	100 kHz	50 kHz	
0	K	АМ	530~1610 kHz 530~1700 kHz	10 kHz	10 kHz	
1	Е	FM	87.5~108.0 MHz	50 kHz	50 kHz	
		E	E	E	AM	531~1602 kHz

3) Specification set SW: AM1700k/AM 1610k (D924) With destination set SW at "0": Effective only for K type

Specification set SW	AM reception frequency band
0	530~1610 kHz
1	530~1700 kHz

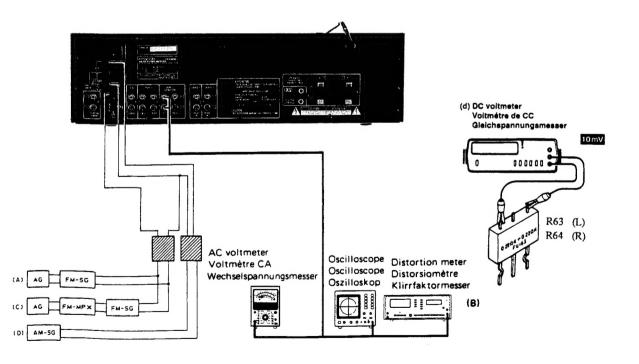
Pin No.	cription Pin name	1/0	Name	Function	
1		-	VRDOWN	Potentiometer down operation control.	High: V down
1	PY1	0	VADOVIN	Potentiometer down operation control.	Low: Normal state
2	PY2		BACKUP	Backup (AC outlet off) detection.	High: Normal state Low: AC outlet off
				When the power is switched on, high is input. When low is input, the microprocessor stops clock generation and of When the signal changes from low to high, the backup state change	
3	RMC	-	REMOCON	REMOCON signal input.	active Low
4~11	PX0~PX3 PD0~PD3	1	KR0~KR7	KEY RETURN signal input.	High There is input. Low: There is no input.
12~16	PC0~PC3 PF0	0	KS0~KS4	KEY SCAN signal output. Normally high is output. Key scan is performed when KEY is ON.	·
17	PF1	0	SMUTE	SURROUND effect audio signal output ON/OFF control.	High: output ON Low: output OFF
18	PF2	0	VOLLED	Volume LED signal output.	High: OFF Low: ON
19	PF3	0	SELST	Data latch signal output to TC9162/TC9164. Data is latched on the rising edge.	
20	PE0	0	DATA	LM7001(PLL IC) TC9162/TC9164 (selector IC) control serial data ou Data is latched on the rising edge of the clock.	tput.
21	PE1	0	CLOCK	LM7001, TC9162/TC9164 control serial data transfer shift clock out of the clock.	put. Data is latched on the rising edg
22	PE2	0	PLLLT	CE signal output to LM7001. When the signal is high, LM7001 is en	nabled.
23	PE3	0	VIDEO 1/2	VIDEO signal switching control.	High: VIDEO 2 Low: VIDEO 1
24	PB0	0	POWER	Power supply circuit relay on/off control.	High: ON Low: OFF
25	PB1	0	MUTE 1	TAPE 2 REC OUT mute control.	High: MUTE OFF Low: MUTE ON
26	PB2	0	MUTE 2	LINE OUT mute control.	High: MUTE OFF Low: MUTE ON
27	PB3	0	CDDL	CD DIRECT LED signal output.	High:OFF Low:ON
28	PA0	1	SD	Tuner tuned detection.	High: NO SIGNAL Low: TUNED
29	PA1	1	STEREO	Tuner FM stereo detection.	High: MONO Low: Stereo
30	PA2	1/0	SDATA	This pin and serial data pin 59 are shorted.	
31	PA3	1/0	BUSY	Serial busy signal input/output.	
32	Vss		GND	GND.	
33~48	S0~S15	0	Sa~So, Sr	Fluorescent display segment drive signal output.	
49~51	T7~T5	0	_	N.C.	
52~56	T4~T0	0	G5~G1	Fluorescent display digit drive signal output.	
57	V _{FDP}	-	V _{FDP}	Fluorescent display output driver circuit power supply.	
58	INT2	1		Unused pin. This pin and GND are shorted.	
59	INT1		SDATA	This pin and serial data input pin 30 are shorted.	
60	XTAL	0	XTAL	Clock generation circuit output.	
61	EXTAL	1	EXTAL	Clock generation circuit input.	
62	RST		RESET	Reset signal input.	
63	PY0	0	VRUP	Volume up operation control.	High: UP Low: Normal state
64	V _{DD}	-	V _{DD}	+5 V power supply.	

ADJUST MENT

AM. Section: If alignment piont is "-", Confirm the value.

If not replace the front end pack.

	II ROU, F	eplace the front end	pack.				
		INPUT	OUTPUT	TUNER	ALIGNMENT		
No.	I TEM	SETTINGS	SETTINGS	SETTINGS	POINTS	ALIGN FOR	FIG.
FM	SECTION	N SELECTOR:	FM				
		(A)	Connect a DC				
		98.0MHz	voltmeter between	AUTO	L806		
1	DISCRIMINATOR	1kHz, ±75kHz dev.	TP803 and TP804.	or MONO	(TUNER	OY	(a)
		60dBµ(ANT.input)	(TUNER UNIT)	98.0MHz	(TINU		1
		(A)	Connect a frequency				
	1	98.0MHz	counter between	AUTO	VR802		
2	VC0	0 dev.	TP805 and TP806.	98.0MHz	(TUNER	19.00kHz	(b)
		60dBu(ANT.input)	(TUNER UNIT)		(TINU		
		(C)					
		98.0MHz					
3	DISTORTION	1kHz,±68.25kHz dev.			IFT		
	(STEREO)	Selector:L or R	(B)	98.0MHz	(¥02-)	Minimum distortion.	
		Pilot: ±6.75kHz dev.				(L or R)	
		60dBµ(ANT.input)					
		(A)					
4	TUNING LEVEL	98.0MHz		AUTO	VR801	Adjust VR801 and	
		0 dev	(B)	or MONO	(TUNER	stop at the point where	
		18dBµ(ANT.input)		98.0MHz	UNIT)	FLT901(TUNED)goes on.	
AM	SECTION	N SELECTOR:	A.Wi				
		(D)			VR804	Adjust VR804 and	1
(1)	TUNING LEVEL	1000(999)kHz	(B)	-	(TUNER	stop at the point where	
		26dBµ(ANT.input)			(TINU	FLT901(TUNED) goes on.	
AUI	OIO SECT	ION					
			Connect a DC voltmeter		VR1 (L)		T
(1)	IDLE CURRENT	-	across R63 (L)	Yolume:0	VR2 (R)	1 0 m V	(d)
			R64 (R)		(AUDIO UNIT)		
			(TINU NIAM)		UNII)		



REGLAGE

Section AM: Si le point d'alignement est—, confirmer la valeur. Sinon, remplacer le bloc avac.

	Omon, ron	iplacer le bloc avac.					
		REGLAGE DE	REGLAGE DE	REGLAGE DU	POINT DE		
N°	ITEM	L' ENTREE	LA SORTIE	TUNER	L'ALIGNEMENT	ALIGNER POUR	FIG
SEC	TION MF		SELECTEUR : FM				
1	DISCRIMI - NATEUR	(A) ~ 98.0MHz 1kHz.±75kHz dév 60dBµ(Entrée ANT)	Relier un voltmètre CC entre les TP803 et TP804 (TUNER UNIT)	AUTO ou MONO 98,0NHz	L806 (TUNER UNIT)	OV	(a)
2	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98.0MHz 0 dêv 60dBµ(Entrée ANT)	Relier un compteur de fréquence entre les TP805(VCO)et TP806 (GND)(TUNER UNIT)	AUTO 98,0MHz	VR802 (TUNER UNIT)	19,00kHz	(b)
3	DISTORSION (STEREO)	(C) 98.0MHz 1kHz.68,25kHz dév Selection:l ou R Signal pilote: ±6,75kHz dév 60dBµ(Entrée ANT)	(B)	98,0MHz	(WO2-) IFT	Distorsion minimale. (LouR)	
4	NIVEAU D'ACCORDER	(A) 98.0MHz 0 dev — 18dB _H (Entrée ANT) 75Ω	(B)	AUTO ou MONO 98,0MHz	VR801 (TUNER UNIT)	Ajuster VR1 et arrêter le mouvement de VR801 au moment où le FL901(TUNED)s'allume.	
SEC	CTION MA		Laisser l'anten	ne bouche MA ins	stallée. SEL	ECTEUR: AM	L
(1)	NIVEAU D'ACCORDER	(A) 1000kHz 26dBa(Entrée ANT)	-	-	VR804 (TUNER UNIT)	Ajuster VR4 et arrêter le mouvement de VR 804 au moment où le FL 901 (TUNED)s'allume.	
SE	CTION AUI	010					
<1>	COURANA DE POLARISATION	-	Connecter un voltmètre CC sur R63 (L) R64 (R) (MAIN UNIT)	Yolume: 0	VR1 (G) VR2 (D) (AUDIO UNIT)	10mV	(d)

ABGLEICH

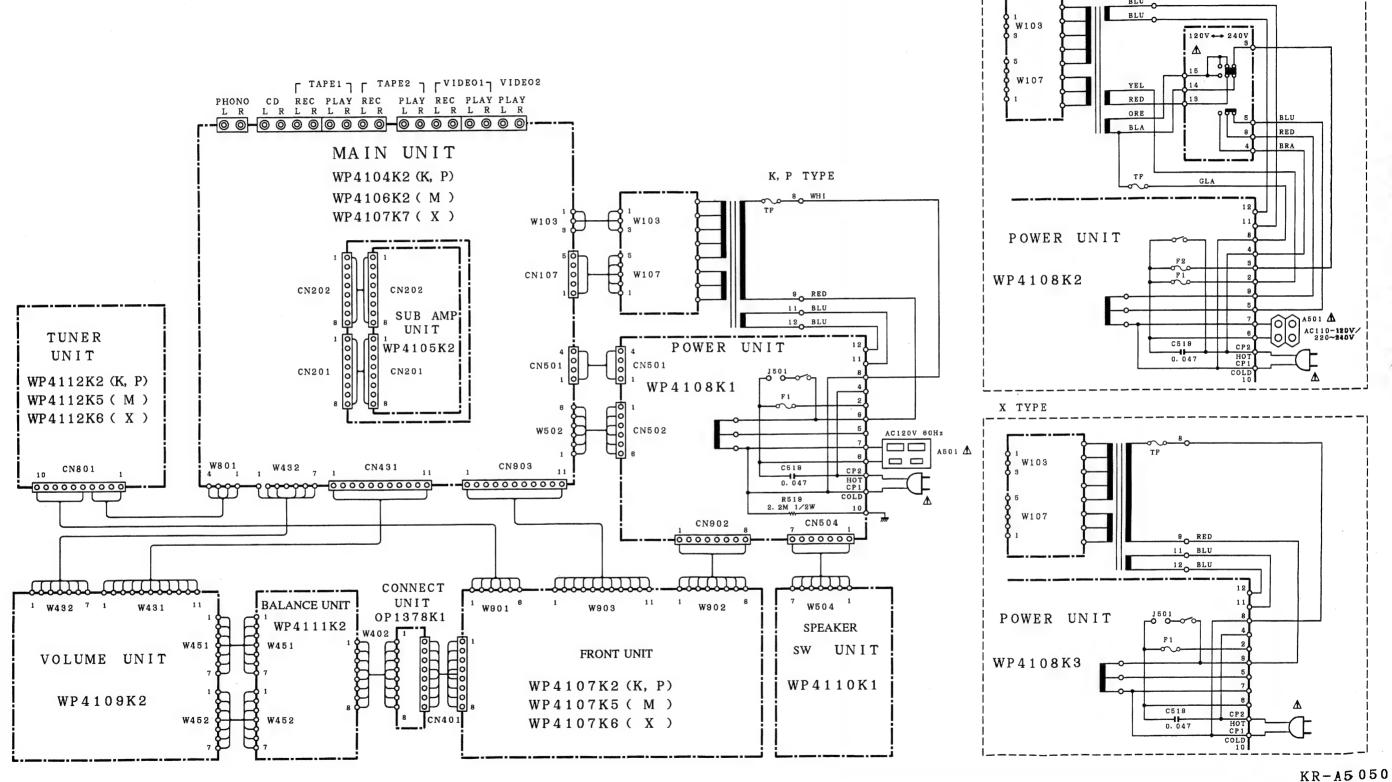
MW-Teil: Wenn der Ausrichtpunkt—ist, den Wert überprüfen. Wenn nicht, die Fronteinheit auswechseln.

	T Chili mong	die Fronteinneit ausw					
		EINGANGS-	AUSGANGS-	TUNER-	ABGLEICH-		
NR.	GEGENSTAND	EINSTELLUNG	EINSTELLUNG	EINSTELLUNG	PUNKTE	ABGLEICHEN FÜR	ABB.
UK	W-EMPFAN	GSABTEILUN	G WÄHLER: FM				
1	DISKRIMI- NATOR	(A) 98,0MHz 1kHz.±75kHz Hub 60dBµ(ANT-Eingang)	Einen Gleichspannungs- messer zwischen TP803 UND TP804 anschlieβen. (TUNER UNIT)	AUTO oder MONO 98.0MHz	L806 (TUNER UNIT)	ov	(a)
2	SPANNUNGS- GEREGELTER OSZILLATOR	(A) 98.0MH2 0 Hub 60dB ₄ (ANT-Eingang)	Einen Frequenzzähler zwischen TP806(VCO) und TP805(GND) anschließen. (TUNER UNIT)	AUTO 98,0MHz	VR802 (TUNER UNIT)	19,00kHz	(b)
3	KLIRRFAKTOR (STEREO)	(C) 98.0MHz 1kHz.±68,25kHz Hub Wähler: L oder R Pilotten: ±6,75kHz Hub 60dBµ(ANT-Eingang)	(B)	98,0MHz	(W02-) IFT	Minimal Klirrfaktor. (LouR)	
4	ABSTIMM PEGEL	(A) 98.0MHz 0 Hub — 18dB _H (ANT-Eingang) 75Ω	(B)	AUTO oder MONO 98.0MHz	VR801 (TUNER UNIT)	Den Pegel wiederstand aufdrehen, und dem VR 801 Halt geben wobei den FL 901 (TUNED) anzeiger leuchtet wird.	
MW	-EMPFANG	SABTEILUNG	Die MW-Rahmena	antenne angebra	acht lassen.	WÄHLER: AM	
(1)	ABSTIMM PEGEL	(A) 1000kHz 26dBμ(ANT-Eingang)	-	_	VR804 (TUNER UNIT)	Den Pegel wiederstand aufdrehen,und dem VR804 Halt geben wobei den FL901 (TUNED) anzeiger leuchtet wird.	
ΑU	DIO-ABTE	ILUNG					
<1>	LEERLAUFSTROM	-	Einen Gleichspannungs- messer über R63 (L) R64 (R) anschließen. (MAIN UNIT)	Yolume: 0	VR1 (L) VR2 (R) (AUDIO UNIT)	10mV	(d)

KR-A4050/5050 KR-A4050/5050

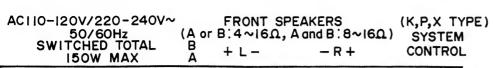
M TYPE

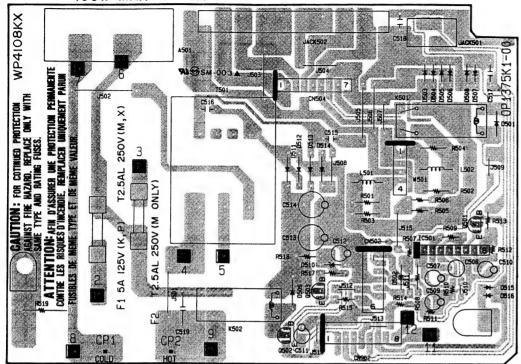
WIRING DIAGRAM



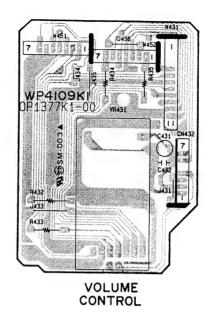
(K, P, M, X TY PE)

PC BOARD (Component side view) POWER UNIT (WP4108KX)

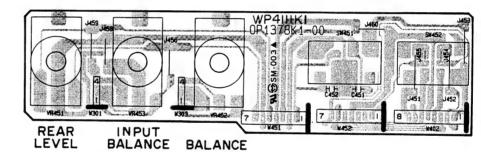


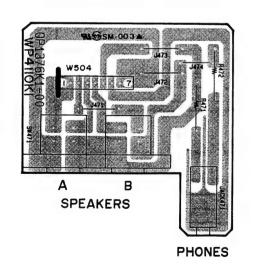




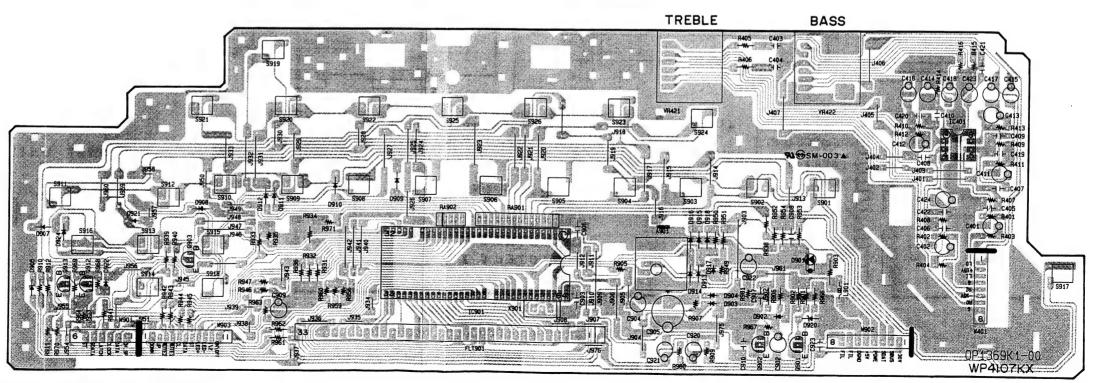


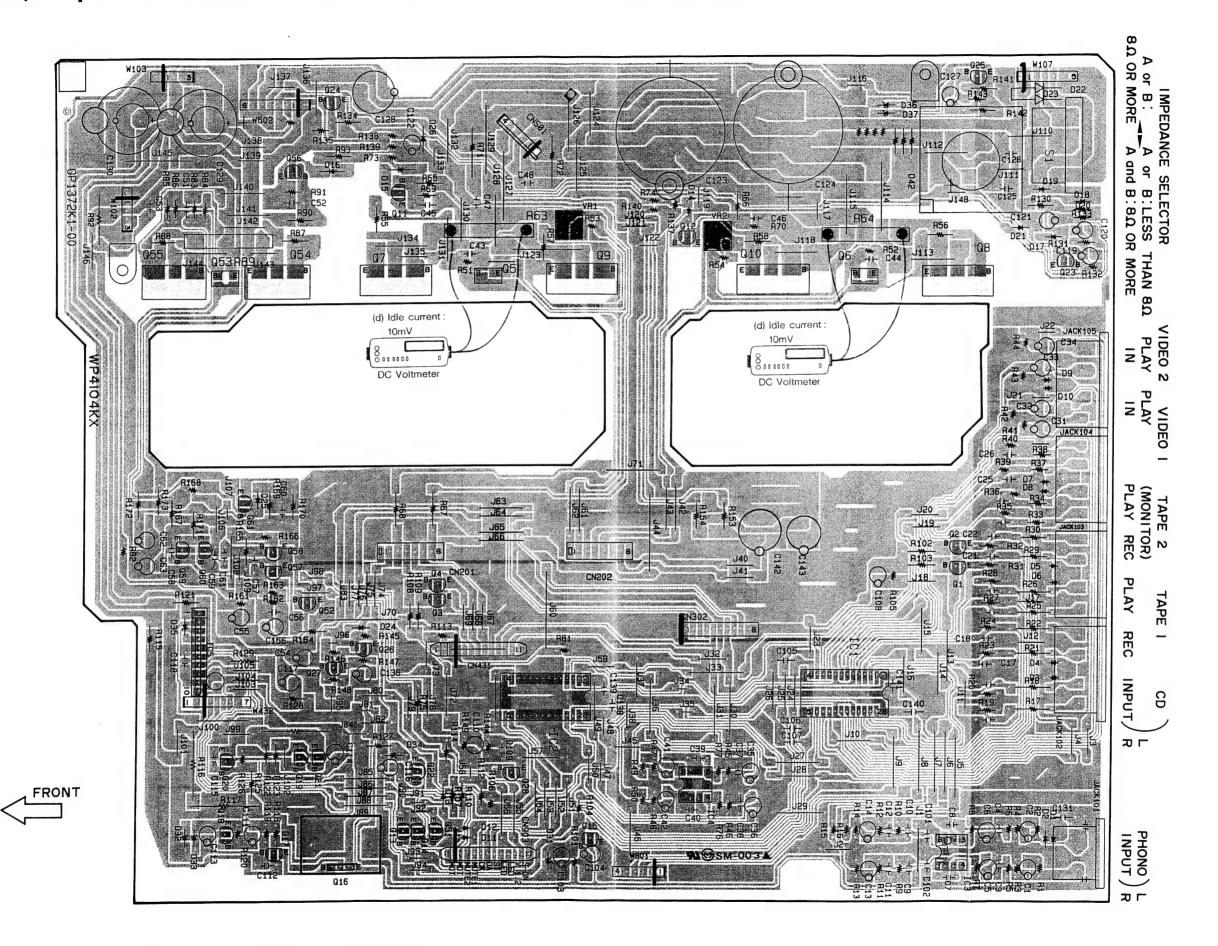
LOUDNESS



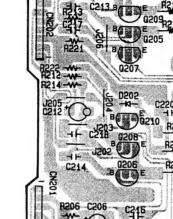






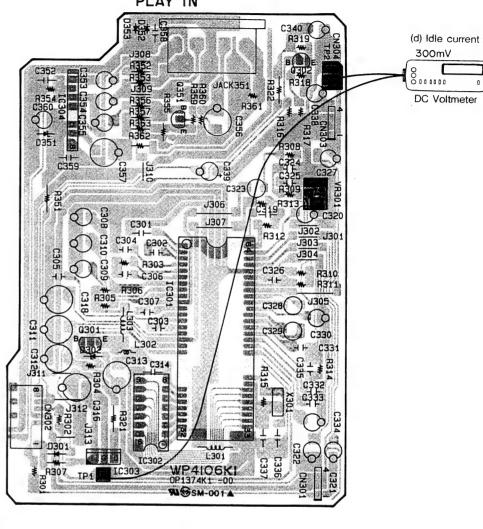


(M TYPE)



(b) VCO: 19.00kHz

C204 B& -W- R224 -W- R208



DE-EMPHASIS CHANNEL SPACE 50,us FM50KHz

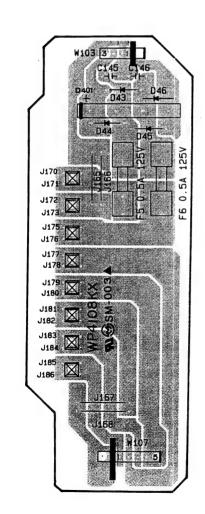
75 us FMIOOKHZ

AM

GND

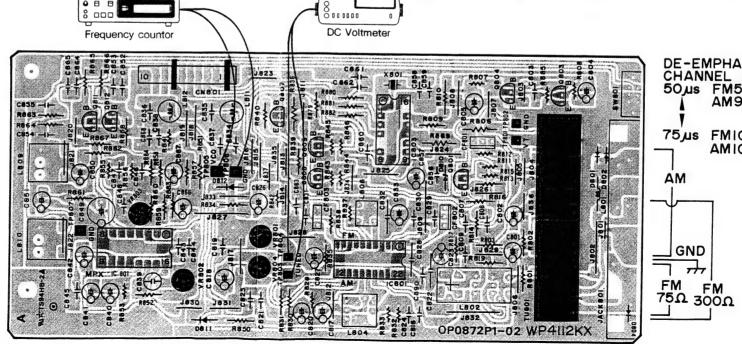
AM9KHz

M,Y TYPE



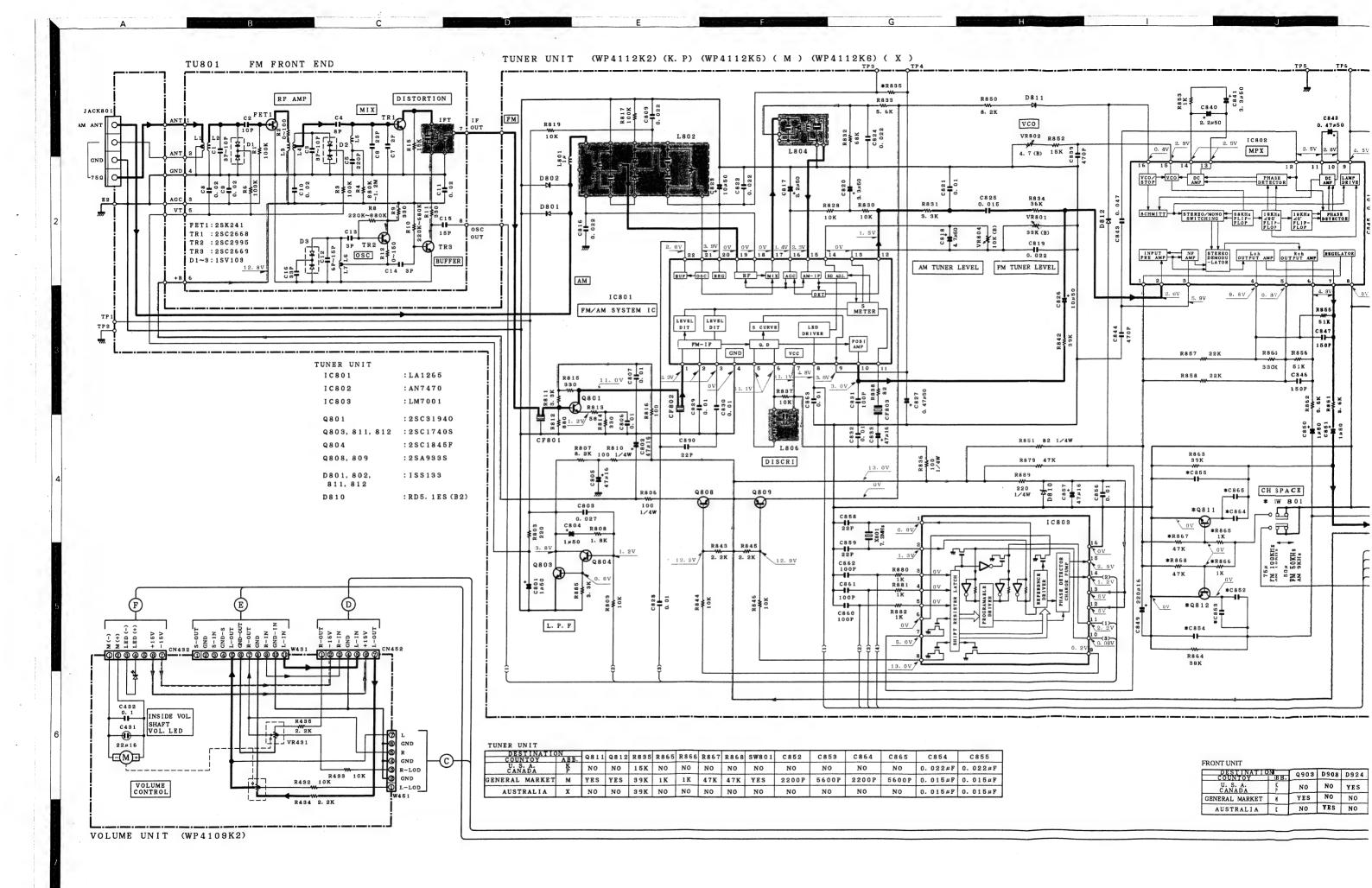
WP4108K2 919SM-003▲

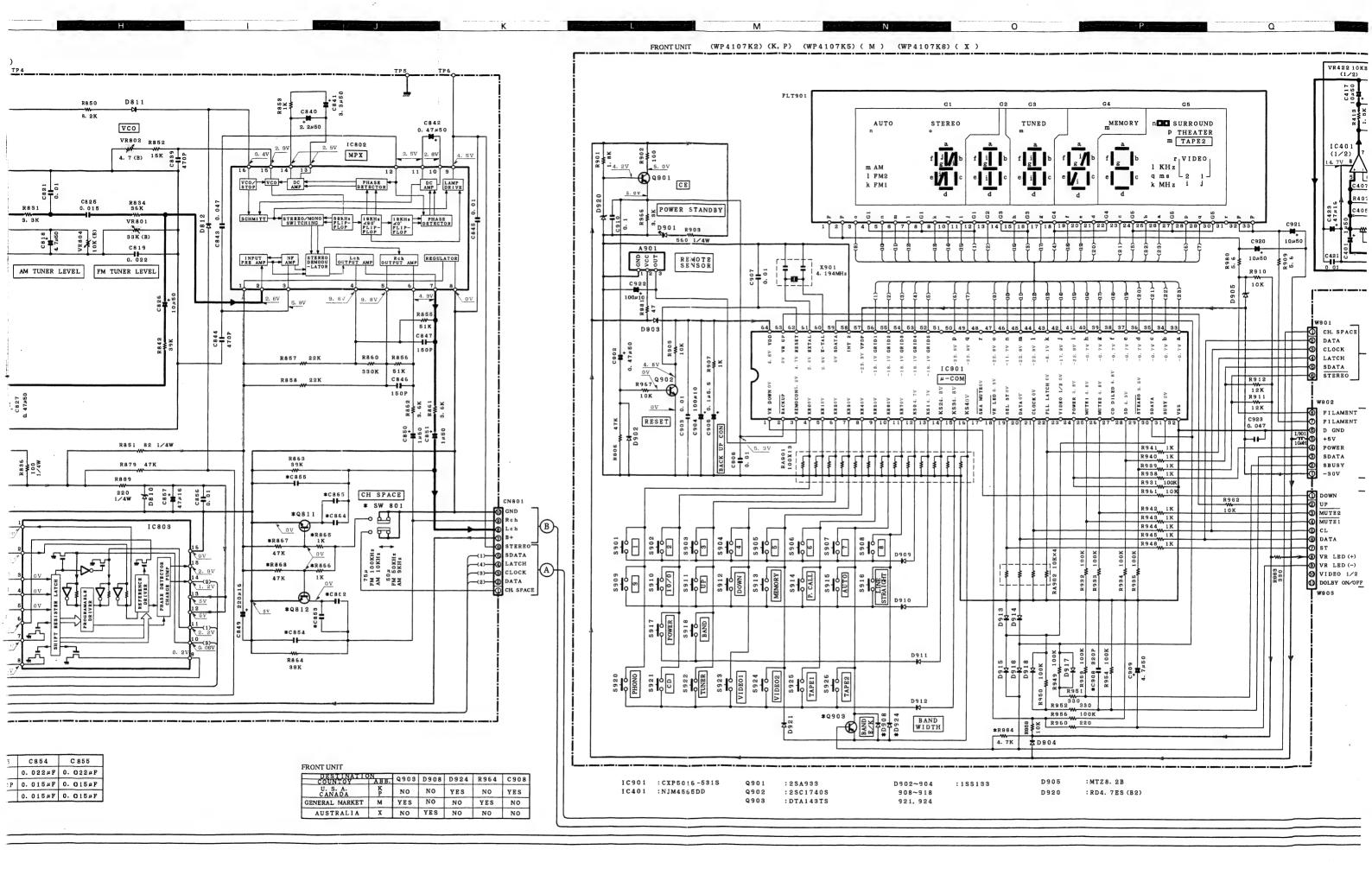
AC110-120V~ - AC220-240V~

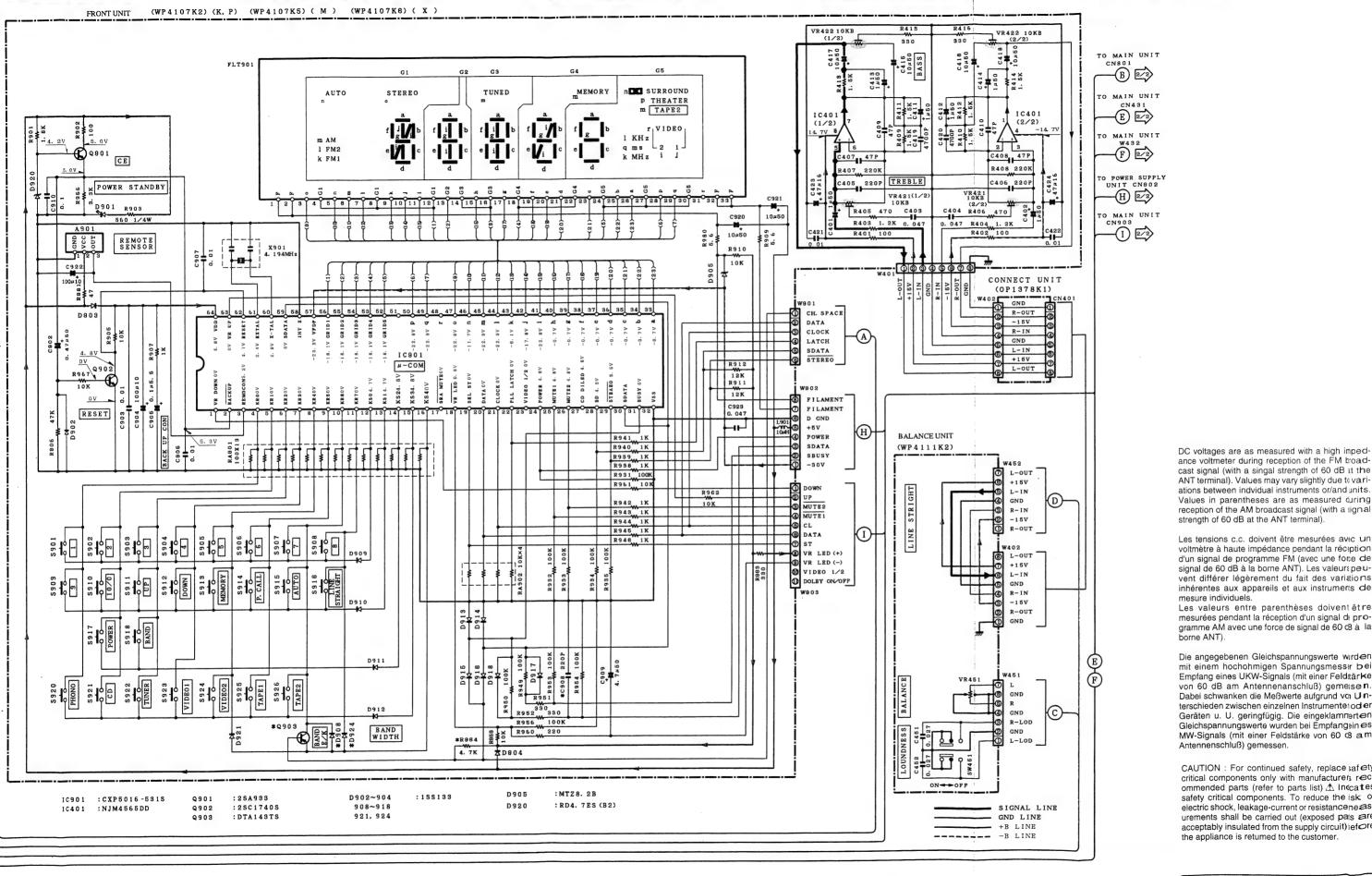


(a) Discriminator:

OV







DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a singal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between indvidual instruments or/and units Values in parentheses are as measured during reception of the AM broadcast signal (with a signal

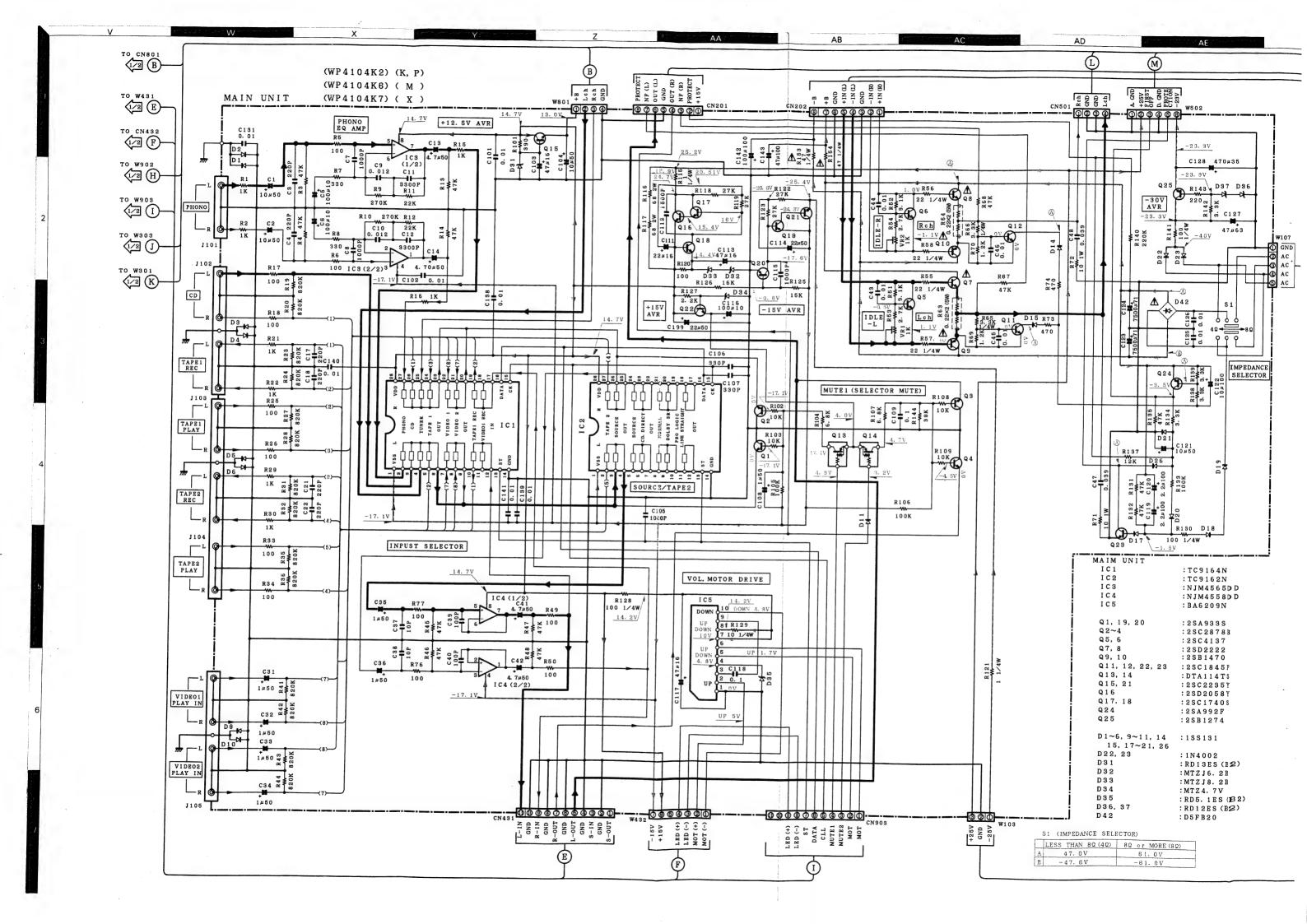
voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une fone de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instrumerts de

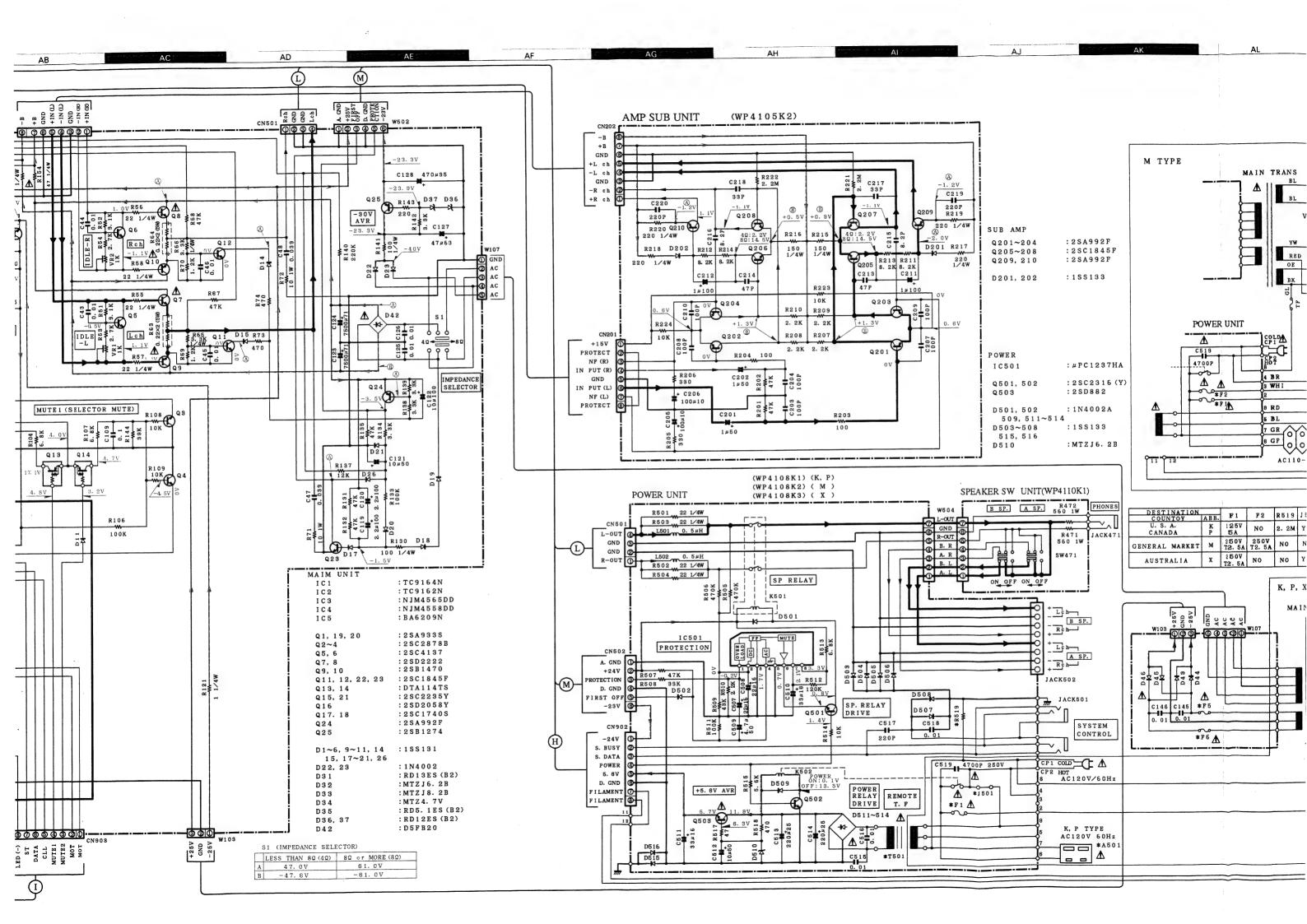
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la

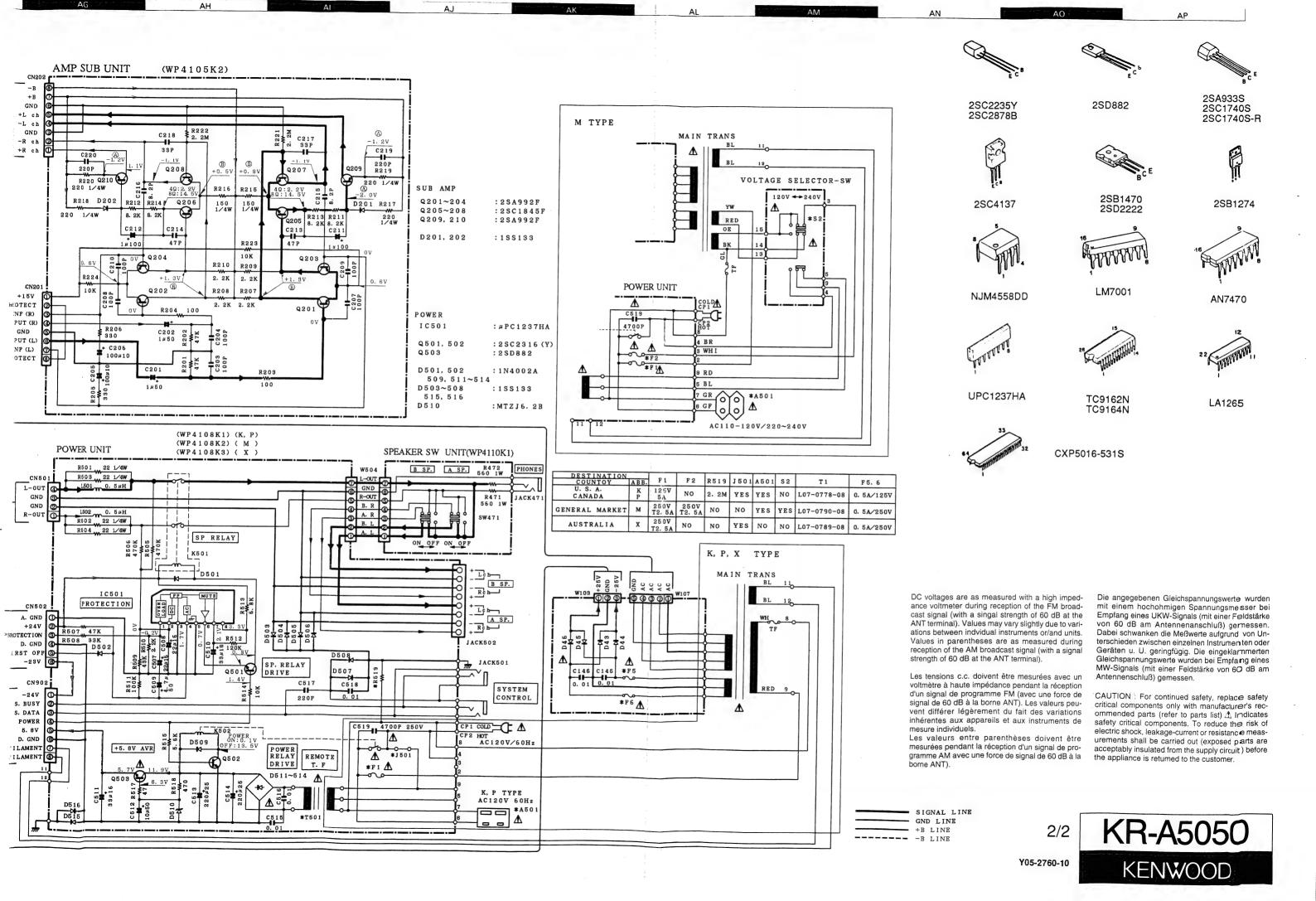
Die angegebenen Gleichspannungswerte wirden mit einem hochohmigen Spannungsmessir bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemeisen Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumente od er Geräten u. U. geringfügig. Die eingeklamnerten Gleichspannungswerte wurden bei Empfangein es MW-Signals (mit einer Feldstärke von 60 ß am

CAUTION: For continued safety, replace safety critical components only with manufacturers recommended parts (refer to parts list) A Indcates safety critical components. To reduce the isk of electric shock, leakage-current or resistanceneasurements shall be carried out (exposed pais are acceptably insulated from the supply circuit) lefore the appliance is returned to the customer.

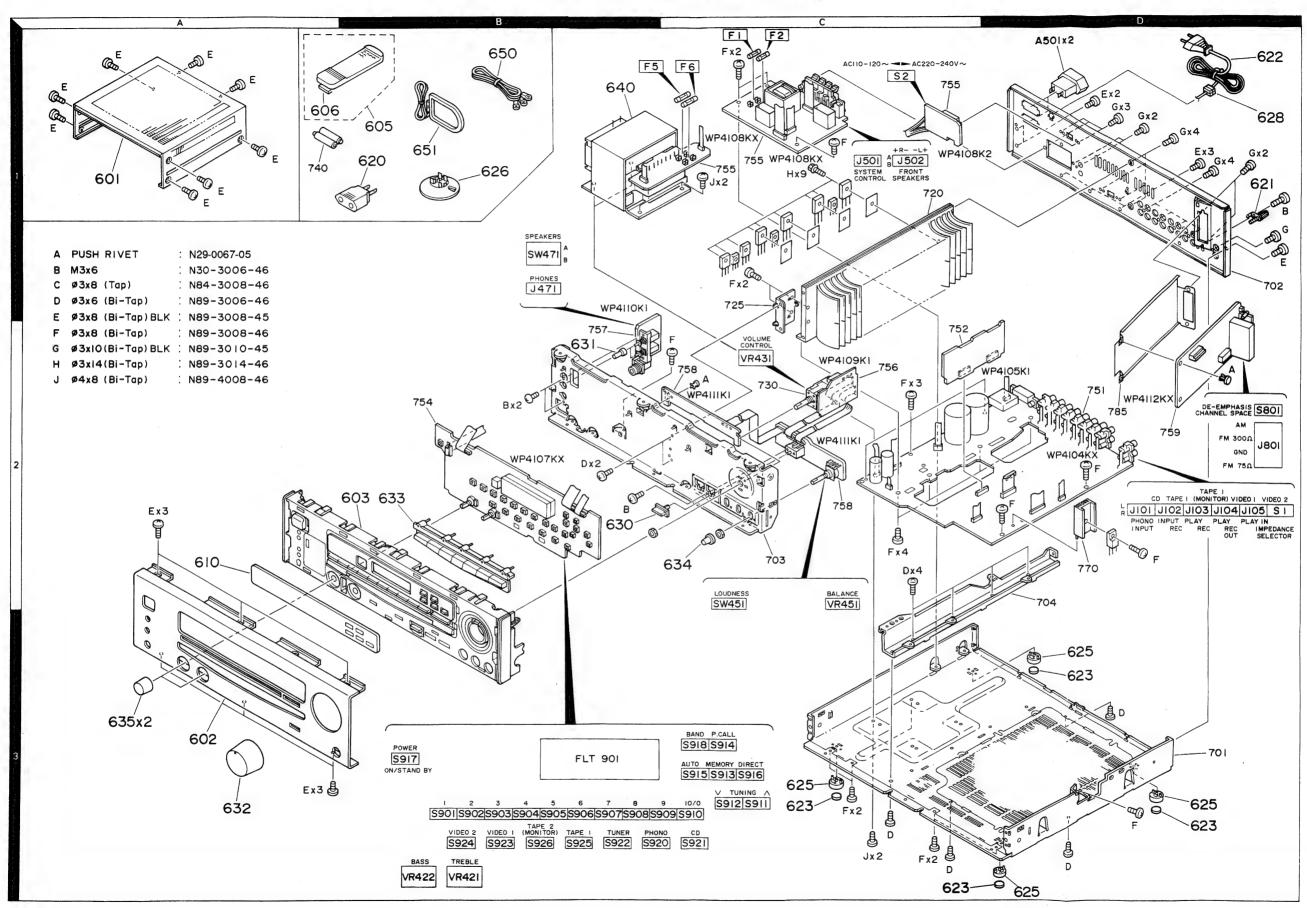
KR-A5050 KENWOOD







KR-A4050/5050 KR-A4050/5050 EXPLODED VIEW (UNIT)



KR-A4050/5050 KR-A4050/5050

PARTS LIST

UNIT LIST

UNIT NAME	K	Р	М	х			
MAIN UNIT	WP41	04K2	WP4106K2	WP4107K7			
SUB AMP UNIT		WP4	105K2				
POWER UNIT	WP41	08K1	WP4108K2	WP4108K3			
FRONT UNIT	WP41	07K2	WP4107K5	WP4107K6			
VOLUME UNIT	WP4109K2						
SPEAKER SWITCH UNIT	WP4110K1						
BALANCE UNIT		WP4	111K2				
TUNER UNIT	WP41	12K2	WP4112K5	WP4112K6			

Teile ohne Parts No.	No. werden nicht	n nict	nt gellefert.			2
Ref. No.	Address	New Parts	Parts No.	Description	Desti-	Re-
松田報名	拉腳	淋	题	部 品 名/規 格	(土 向	· · · · · · · · · · · · · · · · · · ·
			KR-	A5050		
601 602 603 605 606	1A 28 18 1A	* *	A01-3060-08 A60-0478-08 A22-1667-08 A70-0953-08 A09-0088-01	METALLIC CABINET FRONT PANEL SUB PANEL REMOTE CONTROL ASSY BATTERY COVER		
610	2 A	* *	B10-1999-08 B46-0092-23 B46-0096-33 B46-0121-23 B60-1213-08	FRONT GLASS WARRITY CARD WARRATY CARD WARRATY CARD INSTRUCTION MANUAL (ENGLISH)	×a	
1 1		* *	B60-1214-08 B60-1215-08	INSTRUCTION MANUAL (FRENCH) INSTRUCTION MANUAL (SPA.CHI)	2. ₹	
622 622 622 622 622	18 10 10 10 10		E03-0115-05 E21-0023-08 E30-0459-05 E30-0974-05 E30-1341-05	AC PLUG ADAPTER GND TERMINAL AC POWER CORD AC POWER CORD AC POWER CORD	E EXX	
A501	1.0		E03-0055-05	AC @UTLET	×	
623	3C, 3D		613-0267-08	CUSHION FOOT		
111		**	H50-0685-08 H50-0686-08 H10-5574-08 H25-0078-04 H25-1501-08	ITEM CATONBOX ITEM CATONBOX POLYSTYRENE FOAMED FIXTURE PROTECTION BAC	×. Σ Χ	
625 626 628	3C,3D 18 10		J02-1066-08 J19-2815-04 J42-0198-08	FOOT ANTENNA HOLDER AC CORD BUSHING		
630 631 632 633 634	22 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		K27-2105-08 K27-2106-08 K27-2107-08 K27-2109-08 K29-4444-08	KNOB LOUDNESS KNOB SPEAKERS KNOB VOLUNE KNOB PUNCTION		
635	ЗA		K29-4445-08	KNOB BASS, TREBLE		
0449 0440	1188	***	L07-0777-08 L07-0786-08 L07-0787-08 L07-0788-08	Tranceformer Tranceformer Tranceformer Tranceformer	Φ Ε××	
∢ ⊞∪c⊓	2C, 2D 2B 1D 3C, 3D 1A, 1D		N29-0067-05 N30-3006-46 N84-3008-46 N89-3006-46 N89-3008-45	PUSH RIVET PAN HEAD MACHIN SCREW TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
LOID	3C, 3D 1D 1C, 3C		N89-3008-46 N89-3010-45 N89-3014-46 N89-4008-46	BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW		
650 651	188		T90-0176-05 T90-0184-08	T TYPE ANTENNA LOOP ANTENNA		
L: Scandinavia	- is		K:USA P:Canada			

PARTS LIST

Ref. No.	Address		w Parts No.	Description	Desti- Re-
参照着 电	位置	Par See	(2) (2) (4) (4)	华	tion marks 向備考
R55 -58 R63 ,64 R65 ,66 R71 ,72		**	RD14GB2E220J R90-0167-05 RD14GB2E332J RN14BK3A100J RD14GB2E010J	FL-PRGOF RD 22 J 1/4W NULTI-COMP 0.22X2 K 5W FL-PROOF RD 3.3K J 1/4W FL-PROOF RD 1.0 J 1/4W	
R116,117 R121 R128 R129 R130		* *	RN14BK3D680J RD14GB2E010J RD14GB2E101J RD14GB2E100J RD14GB2E101J	FL-PROOF RD 1.0 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W	***************************************
R141 R153,154 VR1 ,2			RD14GB2E101J RD14GB2E470J R12-1066-05	FL-PROOF RD 100 J 1/4W FL-PROOF RD 47 J 1/4W TRIMMING POT. IDLE ADJ 1K	~ ~~
S1			\$62-0032-08	SLIDE SWITCH IMPEDANCE SEL	
D1 -6 D9 -11 D14 ,15 D17 -21 D22 ,23			155131 155131 155131 155131 1N4002	D100E D100E D100E D100E 0100E	
32 33 34		*	15S131 RD13ES(B2) MTZJ6.2B MTZJ9.2B MTZ4.7V	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D35 ,37 D42 IC1		*	RD5.1ES(B2) MTZ12B(B2) D5FB20 TC9164N TC9162N	ZENER DIØDE ZENER DIØDE DIØDE IC(ACH BILATERAL SELECTØR SW) IC(ANALØG SWITCH ARRAY)	
IC3 IC4 IC5 01 -4 05 ,6			NJM4565DD NJM4558DD BA6209N 2SC28788 2SC4137	IC(@P AMP X2) IC(@P AMP X2) IC(MOTAN N2) IC(MOTAN DRIVER) TRANSISTOR	
07 ,8 09 ,10 011 ,12 013 ,14 015		* *	2SD222 2SB1470 2SC1845F DTA114TS 2SC2235Y	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
916 917, 18 919, 20 921 922, 23			2SD2058Y 2SC1740S 2SA933S 2SC2235Y 2SC1845F	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	-
924 925			2SA992F 2SB1274 CIID AMD	TRANSISTOR TRANSISTOR	
000		L	Ξ	UNII (WP4103K1)	
C201,202 C203,204 C205,206 C207-210 C211,212			CE04KW1H010M CC45CH1H101J CE04KW1A101M CC45CH1H101J CE04KW2A010M	ELECTRO 1.00F 50WV CERANIC 100PF J ELECTRO 100UF 10WV CERANIC 100PF J ELECTRO 1.0UF 100WV	
213,214			CC45SL1H470J	CERAMIC 47PF J	

-	(A)	~ 0	Parts No.	Description		Desti- Re-
事。	14	編	お 幸 母 娘	部 品 名 / 規	*	仕 向備考
			MAIN UNIT	(WP4104K1)		
24981		*	CE04KW1H100M CC45CH1H221J CE04KW1A101M CK45CH1H102J CQ92FM1H123J	ELECTRO 10UF CERAMIC 220PF ELECTRO 100UF CERAMIC 1000PF MYLAR 0.012UF	50WV 30WV 10WV	
112			CQ92FM1H332J CEO4KW1H4R7M CC45CH1H221J CC45CH1H221J CEO4KW1H010M	MYLAR 3300PF ELECTRO 4.7UF CERAMIC 220PF CERAMIC 220PF ELECTRO 1.0UF	50WV	
8 4 4 4 4 8 8 8 4 4 4 4 8 6 8 8 8 8 8 8			CC45SL1H100J CC45SL1H101J CE04KW1H4R7M CC45SL1H103K CQ92FM1H393J	CERAMIC 10PF CERAMIC 100PF ELECTRO 4.7UF CERAMIC 0.010UF MYLAR 0.039UF	7 X X Z Z X Z X X X X X X X X X X X X X	
102		*	CC45SL1H103K CEO4KW1C470M CEO4KW1H100M CK45CH1H102J CC45SL1H331K	CERAMIC 0.010UF ELECTRO 47UF ELECTRO 10UF CERAMIC 1000PF	X 200 X X 00 X X X X X X X X X X X X X X	
		*	CEO4KW1H010M CQ92FM1H104J CEO4KW1C220M CK45CH1H152J CEO4KW1C470M	BLECTRØ 1.00F MYLAR 0.10UF BLECTRØ 22UF CERAMIC 1500PF BLECTRØ 47UF	50WV 36WV 16WV	
		*	CEO4KW1H220M CK45CH1H102J CEO4KW1A101M CEO4KW1C470M CK45FF1H104J	ELECTRO 22UF CERAMIC 1000PF ELECTRO 100UF ELECTRO 47UF CERAMIC 0.10UF	50WV 10WV 16WV	
120 124 126		*	CEO4KW2A2R2M CEO4KW1H100M CEO4KW2A100M C90-1870-05 CC45FSL2H103Z	ELECTRO 2.2UF ELECTRO 10UF ELECTRO 7500UF CERAMIC 0.010UF	100WV 50WV 71WV	
-141			CEO4KW1J470M CEO4KW1V471M CK45SL1H103K CC45SL1H103K CC45SL1H103K	ELECTRO 47UF ELECTRO 470UF CERAMIC 0.010UF CERAMIC 0.010UF ELECTRO 100UF	63WV 35WV K K K 100WV	
			CEO4KW2A470M CEO4KW1H220M	ELECTRO 47UF ELECTRO 22UF	100WV 50WV	
01 02 03 05 51		* *	E70-0035-08 E70-0036-08 E70-0037-08 E70-0036-08	TERMINAL BOARD PHONO TERMINAL BOARD CD, TAI TERMINAL BOARD TAPEI TERMINAL BOARD VIDEO TERMINAL BOARD SP EAN	WAPEI REC 1 PLA, TAPE2 W 1,2 PLAY AKERS	
			J13-0084-08	FUSE HOLDER		
			L40-4781-17	SMALL FIXED INDUCTOR	0.5ИН	
20,	2D		N89-3008-46	BINDING HEAD TAPTITE	SCREW	

Frants without Parts No. are not supplied.

illes artícles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefent.

NO.4

Ref. No.	Address	New Parts	Parts No.	Description	Desti-Re- nation marks
参照書号	位 道	新	部品番号	部品名/規格	t 向 備考
215,216 217,218 219,220		*	CC45CH1H8R2J CC45CH1H330J CC45CH1H221J	CERAMIC 8.2PF J CERAMIC 33PF J CERAMIC 220PF J	
215,216 217-220			RD14GB2E151J RD14GB2E221J	FL-PROOF RD 150 J 1/4W FL-PROOF RD 220 J 1/4W	
201,202 201-204 205-208			1SS133 2SA992F 2SC1845F	DIODE TRANSISTOR TRANSISTOR	
209,210	L		ERONT I	JNIT (WP4107KX)	
901	1		B30-0413-05	LED (LTL4213(RED))	
2401,402 2403,404 2405,406 2407-410			CE04KW1H010M CG92FM1H473J CC45CH1H221J CC45SL1H470J CE04KW1H010M	ELECTRO 1.0UF 50WV MYLAR 0.047UF J CERAMIC 220PF J CERAMIC 47PF J ELECTRO 1.0UF 50WV	
C415-418 C419,420 C421,422 C423,424 C902			CE04KW1H100M CQ92FM1H472J CK45F1H103M CE04KW1C470M CE04KW1HR47M	ELECTRO 10UF 50WV MYLAR 4700PF 3 CERAMIC 0.010UF M ELECTRO 47UF 16WV ELECTRO 0.47UF 50WV	
0903 0904 0905 0906,907			CK45F1H103M CE04KW1A101M KHR~PX0001N3 CK45F1H103M CC45CH1H221J	CERAMIC 0.010UF M ELECTRO 100UF 10WV BACKUP 0.1UF 5.5WV CERAMIC 0.010UF M CERAMIC 220PF J	KP
C909 C910 C920,921 C922 C923		*	CE04KW1H4R7M CK45FF1H104Z CE04KW1H100M CE04KW1A101M CC45SL1H473K	ELECTRO	
L901 X901			L40-1001-17 L78-0209-05	SMALL FIXED INDUCTOR 10UH RESONATOR 4.19MHz	
RA901 RA902 VR421,422			R90-0483-05 R90-0809-05 R06-3078-08	MULTI-COMP 100KX13 J 1/6W MULTI-COMP 10KX4 J 1/6W POTENTIOMETER BASS,TREBLE 10KB	
SW901-918 SW920-926			S70-0008-08 S70-0008-08	TACT SWITCH KEY BOARD TACT SWITCH KEY BOARD	
D902-904 D905 D908 D909-918 D920			1SS133 MTZ8.2B 1SS133 1SS133 RD4.7ES(B2)	DIODE ZENER DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE	X
D921 D924 FLT901 IC401 IC901			1SS133 1SS133 CF1036C NJM45650D CXP5016-531S	DIODE DIODE TUORESCENT INDICATOR TUBE IC(OP AMP X2) IC(4BIT MICROPROCESSOR)	KP
Q901 Q902 Q903			-2SA933 2SC1740S DTA143TS	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	M

L'Scandinavi	a
Y:PX(Far E	ast, Hawaii)
Y:AAFES(E	urape)

K:USA

P:Canada T:England E:Europe X:Australia M:Other Areas

⚠ indicates safety critical components

New Parts

Far to without Parts No. are not supplied.

Il és ar tisles non mentionnes dans le Parts No, ne sont pas fournis.

Telle ohne Parts No. werden nicht gellefent.

NO.5

_			Address	New		P	arts	No.	T		Des	cription			Desi		Re-
	Ref.		位 置	Parts				番号	- 1	盤		名/規	格		tt tt		mark 備湯
_	参照	番 号	152 150	¥	-	N	пи	A 7	-						+		-
A٩	901				WO	2-1		-08		FRONT END							<u>_</u>
							P	OWE		INIT (WP						_	_
CCC	145, 507 508 509 510,			*	CE	04K 04K 04K	W10 W10 W11	03Z 2220M 2220M 14R7M 2330M		CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO		0.010UF 22UF 22UF 4.7UF 33UF	Z 16k 16k 50k 16k	IV IV			
000	512 513, 515, 517				CH	04F (45F (45F	(W1) 71H CH1!	H100M E221M 103M H221J 103M		ELECTRO ELECTRO CERAMIC CERAMIC CERAMIC		10UF 220UF 0.010UF 220PF 0.010UF	501 251 M J M				
c	519				к	1R-0	QM4	726M6		CERAMIC		4700PF	AC:	250V			
J	SO1 JACK!		10		E	11-	018	4-08 8-05 4-08		AC QUTLET PHONE JACK TERMINAL B		SYNCH D SPEAK			KP		
F	-5	, 2		*	F	05- 05- 05-	252 252 501	2-05 5-05 5-05 6-05 4-08		FUSE UL 54 FUSE T2.54 FUSE T2.54 FUSE 0. FUSE UL 0.	4(25 4(25 .5A/	60V) 60V) (250V			KP X M MX KP		
1	-				J	13-	008	4-08		FUSE HOLDI	ER						
	L501 T501 T501 T501	,502			L	07- 07-	077 078	701K1 78-08 89-08 90-08		COIL TRANS FOR TRANS FOR TRANS FOR	MER	O.5UH			KP X M		
	R501 R519	-504		*				2E220J 2H225J		FL-PROOF RD	RD	22 2.2M	J J	1/4W 1/2W	KP		
	K501 K502 S2				5	76-	003	92-05 32-08 10-05		MAGNETIC MAGNETIC SLIDE SWI	REL	AY SPEA	KER	SELECT	м		
		,502 3-508		1		N40 N40 SSI N40	002 133 102	A A		DIODE DIODE DIODE ZENER DIO	DE						
	0515 IC50	,502				NAC ISS IPC: 2SC:	133 123 231			DIODE DIODE IC(POWER TRANSISTO TRANSISTO	R)					
T	400.							VOLU	ME	UNIT (W	/P4	109K1)				
	C43			T:			4BW	10220M 1H104J	1	NP-ELEC CERAMIC		22UF 0.10UF	1	6WV			
	VR4	31			*	R29	-50	82-08		POTENTION	ETE			OOKB)	(3		
1						S	PE	AKE	R S	WITCH U	INI.						
1	JAC	K471		\top		E11	-02	23-08		PHONE JAC	CK	HEAD	PHO	NE			
		1,472			*	RN1	4 BK	3A561J)	RN		560	J	1 W			
	SW4	71				S62	-00	33-08		PUSH SWIT	гсн	SPEAKE	RS				
- 1				- 1	- 1					1							

L:Scandmuvia

K:USA

Y:PX(Far East, Hawaii) Y: AAFES(Europe)

T:England E:Europe M:Other Areas

P:Canada

⚠ indicates safety critical components.

KR-A4050/5050

Parts without Parts No. are not supplied.

 $1\,\mathrm{GS}$ articles non-mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefent.

NO 6

Ref. No. 参照番号	Address 位 置	New Parts No. Parts 新部品畫号	Descrip: 部 品 名 /	tion /規格	Desti- Re nation mar 仕 向備
		BALANCI	UNIT (WP41111	K1)	
451,452		CQ92FM1H273J	MYLAR 0.02		T
R451		R10-5071-08	POTENTIOMETER BA	LANCE	
W451	1	540-2376-05	PUSH SWITCH LO	UNDNESS	
		TUNER U	NIT (WP4112KX))	
801 802 803 804 805		CE04KW1H010M CE04KW1C470M CQ92FM1H273J CE04KW1H010M CE04KW1C470M	ELECTRO	16WV 7UF J F 50WV	
806,807 809 816 817 818		CK45F1H103M CK45FF1H223Z CK45FF1H223Z CE04KW1H2R2M CE04KW1H4R7M	CERAMIC 0.01 CERAMIC 0.02 CERAMIC 0.02 ELECTRO 2.2U ELECTRO 4.7U	2UF Z 2UF Z	
819 820 821 822 823		CK45FF1H223Z CE04KW1H3R3M CK45F1H103M CK45FF1H223Z CE04KW1H100M	CERAMIC 0.02 ELECTRO 3.3U CERAMIC 0.01 CERAMIC 0.02 ELECTRO 10UF	F 50WV OUF M	
824 825 826 827 828-830		CK45FF1H223Z CQ92FM1H153J CE04KW1H100M CE04KW1HR47M CK45F1H103M	CERAMIC 0.02 MYLAR 0.01 ELECTRO 1.00 ELECTRO 0.47 CERAMIC 0.01	SUF J 50WV UF 50WV	
831 832 833 839 840		CC45CH1H101J CK45F1H103M CE04KW1C470M CQ09FS1H471J CE04KW1H2R2M	CERAMIC 0.010 CERAMIC 0.010 ELECTRO 470F POLYSTY 470F ELECTRO 2.206	OUF M 16WV F J	
841 842 843 844 845		CE04KW1H3R3M CE04KW1HR47M CQ92FM1H473J CK45B1H471K CK45F1H103M	ELECTRO 3.3UE ELECTRO 0.47U MYLAR 0.047 CERAMIC 470PE CERAMIC 0.010	JF 50WV 7UF J F K	
846,847 849 850,851 852 853		CC45SL1H151K CE04KW1C221M CE04KW1H010M CQ92FH1H222J CQ92FM1H562J	CERAMIC 150PE ELECTRO 220UE ELECTRO 1.0UE MYLAR 2200E MYLAR 5600E	16WV 50WV	M
854,855 854,855 856 857 858,859		CQ92FM1H153J CQ92FM1H223J CK45F1H103M CE04KW1C470M CC45CH1H220J	MYLAR 0.015 MYLAR 0.012 CERAMIC 0.010 ELECTRO 47UF CERAMIC 22PF	UF J	MX KP
360-862 363 364 365 390		CC45CH1H101J CK45F1H103M CQ92FM1H222J CQ92FM1H562J CC45CH1H220J	CERAMIC 100PF CERAMIC 0.010 MYLAR 2200P MYLAR 5600P CERAMIC 22PF	UF M	M M
CK801		E70-0005-08	TERMINAL BOARD ANT	ENNA	

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii) Y://AFES(Europe)

T:England

E:Europe

M:Other Areas

A indicates safety critical components.

« New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No, ne sont pas fournis.

Ref. No.	Address		Parts No.	Description		Re-
参照番号	位置	Parts 新	部品番号	部品名/規格		mark: 備考
CF801,802 CF803 _801 _802			L72-0531-05 L72-0096-05 L40-1091-17 L39-0109-05 L30-0408-05	CERAMIC FILTER 10.7MHz CERAMIC FILTER SMALL FIXED INDUCTOR 1UH COIL IFT-AM		
.806 (801			L30-0439-05 L77-1122-05	IFT-FM CRYSTAL RESONATOR 7.2MHz		
A	20		N29-0067-05	PUSH RIVET		
8806 8810 8836 8851 8869			R014GB2E101J R014GB2E101J RD14GB2E101J RD14GB2E820J RD14GB2E820J	FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 62 J 1/4W FL-PROOF RD 220 J 1/4W		
/R801 /R802 /R804			R12-3166-08 R12-1053-05 R12-3071-05	TRIM POT. 33KB FM TUNE LEVEL TRIM POT. 4.7KB VCQ TRIM POT. 10KB AM TUNE LEVEL		
SW801			S62-0012-08	SLIDE SWITCH oh SEPALATION	м	
0801,802 0810 0811,812 [C801			1SS133 R05.1ES(B2) 1SS133 LA1265 AN7470	DIODE ZENER DIODE DIODE LC(FM/AM TUNER) LC(FM MPX)		
C803 0801 0803 0804 0808,809		*	LM7001 2SC31940 2SC1740S 2SC1845F 2SA933S	IC(PLL FREQUENCY SYNTHESIZER) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
811,812			2SC1740S	TRANSISTOR	M	
U801			W02-1042-05	FM TUNER PACK	крмх	

L:Scandinuvia

K:USA

Y:FX(Far East, Hawaii)

T:England

Y: AAF ES(Europe)

E:Europe X:Australia . M:Other Areas

P:Canada

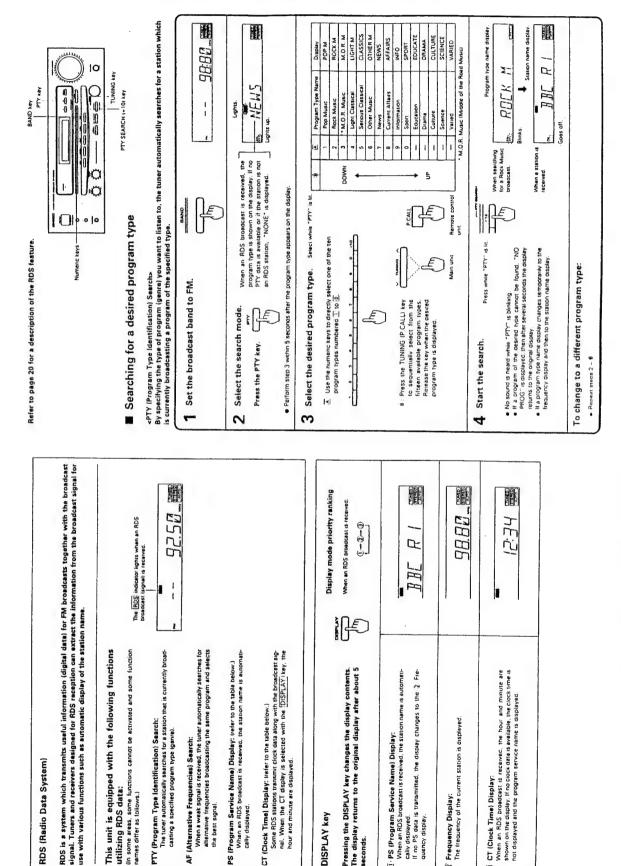
⚠ indicates safety entiral components

(R-A4050/5050

KR-A4050/5050 E

KR-A4050/5050

CONTROLS & INDICATORS (E, T type)



Display mode priority ranking When an RDS broadcast is received:

(-C-j

Pressing the DISPLAY key changes the display contents. The display returns to the original display after about 5 seconds.

DISPLAY key

· PS (Program Service Name) Display: When an RDS broadcast is received, the station name is automatically displayed. If no PS data is transmitted, the display changes to the $\mbox{\ensuremath{\mathbb{Z}}}$ Field no PS data is transmitted, the display changes to the $\mbox{\ensuremath{\mathbb{Z}}}$

92.58

1

When a weak signal is received, the tuner automatically searches for alternative frequencies broadcasting the same program and selects

the best signal.

AF (Alternative Frequencies) Search:

PS (Program Service Name) Display; teter to the table below.)
When an RDS broadcast is raceived, the station name is automati-

cally displayed.

Some RDS stations transmit clock data along with the broadcast signal. When the CT display is selected with the ODISPLAY key, the hour and minute are displayed.

(Clock Time) Display: trefer to the table below.)

5

The tuner automatically searches for a station that is currently broad-casting a specified program type (genre).

PTY (Program Type Identification) Search:

The RDS indicator lights when an RDS broadcest (signal) is received.

Iln some areas, some functions cannot be activated and some function names differ as follows.

This unit is equipped with the following functions

utilizing RDS data:

RDS (Radio Data System)

Œ

H

98.80

HE:21

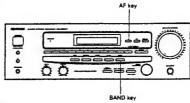
CT (Clock Time) Display:
When an RDS brootests is received; the hou; and minute are
shown on the display. If no clock date is available, the clock time is
not displayed and the program service name is displayed.

Frequency Display: The frequency of the current station is displayed.

KR-A4050/5050 controls & indicators

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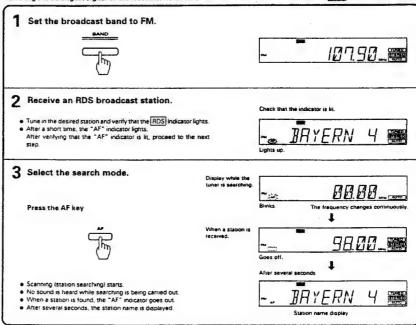
Refer to page 20 for a description of the RDS feature.



■ Searching for the best frequency

<AF (Alternative Frequencies) Search>

If more than one FM station is broadcasting the same program, this function will automatically select the station offering the strongest signal or the least interference. (The AF feature will not function if the RDS indicator is not lit.)



AF (Alternative Frequencies) Feature

- . With some stations, it may take some time for the "AF" indicator to light.
- . To obtain the best reception conditions, we recommend waiting a few minutes after the "AF" indicator lights before pressing the AF; key.
- . It is useful to use the number keys to preset imemorizel stations received with this AF function. (See page 18.)
- The selected frequency may vary depending on the signal conditions.
- . There are some RDS stations which do not support this AF function. For such stations, the "AF" indicator does not light.

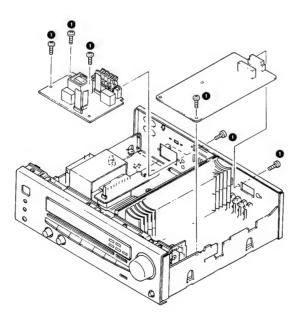
DISASSEMBLY FOR REPAIR

- 1. Remove the 6 screws ①, and the pull out the front panel out while pressing the 3 claws ② to remove the front panel.
 - The sub-panel can be removed when the 3 knobs
 are removed and the undo the 2 claws

3. The headphone PCB, the MAIN VOL PCB and the balance PCB can be removed when the 4 screws \$ 5, the 5 knobs \$ 6 and the 4 nuts \$ 6 are removed.

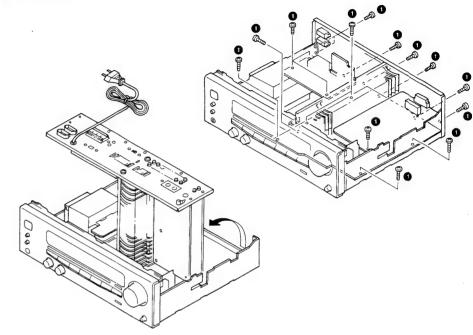
To remove the balance PCB, however, it must be raised in the upward direction and then pulled to the backward direction.

1. The tuner PCB, the power supply PCB and the surround PCB can be removed when the 8 screws
are removed.

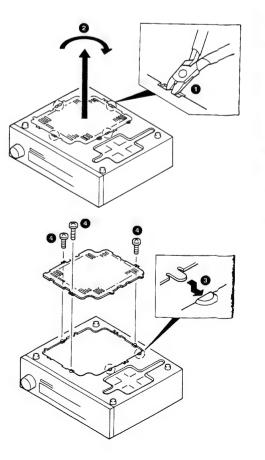


KR-A4050/5050 DISASSEMBLY FOR REPAIR

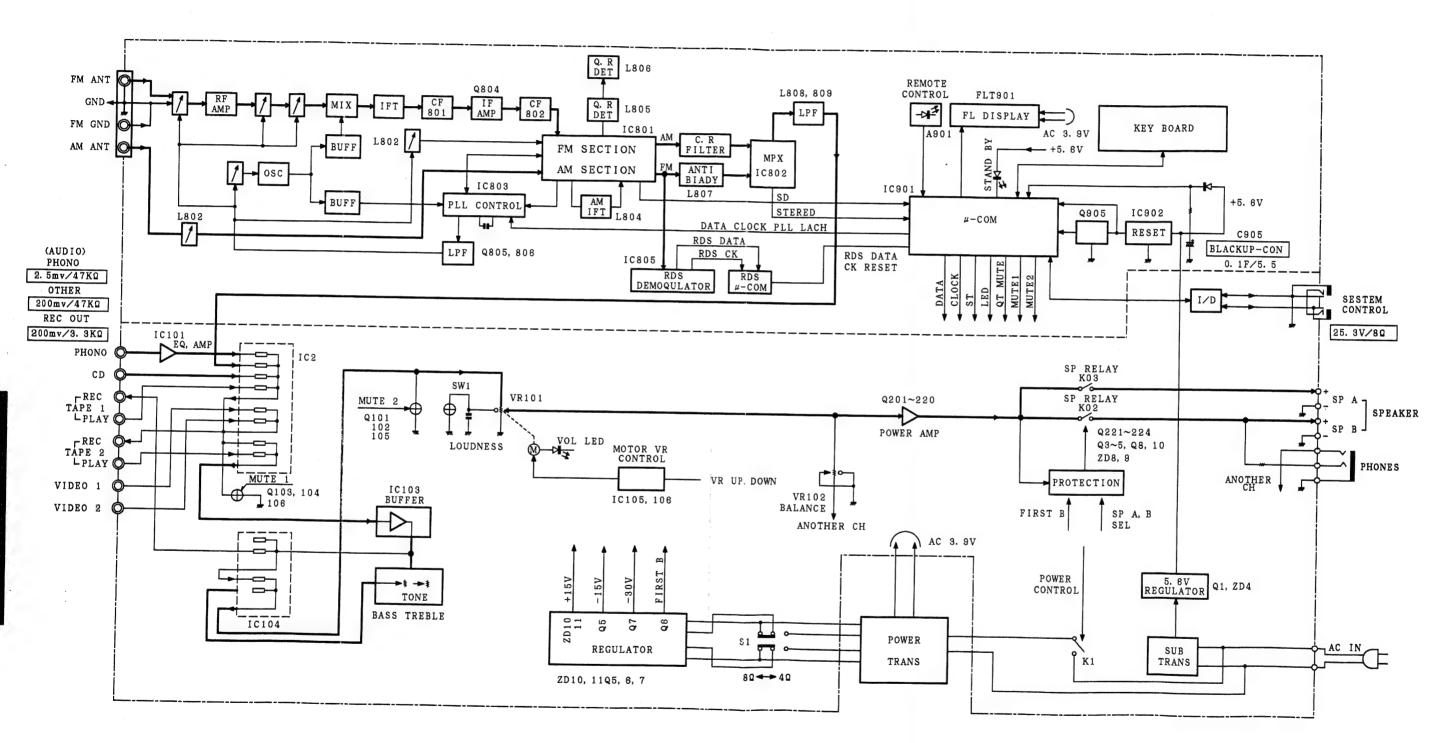
1. Repair can be carried out with the MAIN (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 18 screws 1 are removed.



- 1. Cut the 4 places with a pair of nippers. ①, and remove the bottom panel from chassis.
- 2. Move the unit holder from the current position to the open mounting position.
- 3. Rotate the lid, which was cut off, by 180° degrees 2.
- 4. Insert the lids in the 2 places of the chassis 3, and mount them with the 3 screws 4.



KR-A4050/5050 KR-A4050/5050 BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Function description

Features

AMP

Seven-position selector: (CD, TUNER, PHONO, TAPE1,

TAPE2, VIDEO1, VIDEO2)

Six audio input terminals: (CD, PHONO, TAPE1, TAPE2,

VIDEO1, VIDEO2)

Three audio output terminals: (TAPE1, TAPE2)

LINE STRAIGHT

Speaker A/B changeover.

TAPE 2 monitor.

TUNER

20ch random preset...

Tuning control by IF count.

Direct selection.

RDS function (E, T-TYPE only)

2. Conditions according to the destination and model

AMP

MODEL	DIOD	E SW	Surround function
MODEL	5	4	Surround function
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (except E, T)	0	1	PRO-LOGIC, 3-STEREO
KR-A4050/A5050/V6050 (E, T only)	1	X	No surround

X: Don't Care

TUNER

Destination		DIOD	E SW		Band	Receiving Remarks	Channel Space	IF	RF	Note
Destination	3	2	1	0	Dariu	neceiving hemaiks	Charmer Space	11"	N.F	Note
K1	0				FM	87.5 MHz ~ 108.0 MHz	100 kHz	+ 10.7 MHz	50 kHz	
N I	0	0	0	0	AM	530 kHz ~ 1610 kHz	10 kHz	+ 450 kHz	10 kHz	
K2		0	1		FM	87.5 MHz ~ 108.0 MHz	100 kHz	+ 10.7 MHz	50 kHz	
K2 0 0 1 0	0	AM	530 kHz~1700 kHz	10 kHz	+ 450 kHz	10 kHz				
E	0	1			FM	87.5 MHz ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz	
	0	'	0	0	AM	531 kHz~1602 kHz	9 kHz	+ 450 kHz	9 kHz	
E	1	1			FM	87.5 MHz ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz	With RDS
E.	1		0	0	AM	531 kHz ~1602 kHz	9 kHz	+ 450 kHz	9 kHz	

[DIODE MATRIX: <X14> DIODE SW NO.]

μ-com	PIN NO.	55	56	57	58	59	60
PIN NO.	PIN NAME	KR5	KR4	KR3	KR2	KR1	KRO
61	KS7	Channel space	AM 1610/1700	RDS No/Yes	DSP. DOL/ DOL DNLY	SURROUND Yes/No	(X)
DUIDE SW NO).	2	1	3	4	5	0
< X13 > DIOD	E Ref. No.	D923		D922		D921	_

CIRCUIT DESCRIPTION

• Diode SW 0 →

Diode SW 1 → AM band range/K TYPE only

0: AM NARROW

1: AM WIDE

• Diode SW 2 → Channel base (Products bound for M:

Changeover with switch)

0: FM 100 kHz/step, AM 10 kHz/step

1: FM 50 kHz/step, AM 9 kHz/step

TUNER

VIDE01

ON

OFF

Diode SW 3 → With/without RDS/E TYPE only

0: Without RDS

1: With RDS

Diode SW 4 → Surround mode

0: DOLBY function & DSP function

1: DOLBY function only

Diode SW 5 → With/without surround

0: With surround

1: Without surround

3. Initial state

1) POWER OFF

(2) AMP system

Audio selector

Video system selector

Speaker A

 TAPE2 MONITOR LINE STRAIGHT

Speaker B

OFF OFF

(3) TUNER system

Band

FM

Frequency

Lower limit of FM

(87,5 MHz)

TUNING mode

AUTO TUNING

(AUTO STEREO)

· P. CH indication

(4) Test frequency

,	K1 TYPE	K2 TYPE	E TYPE
01ch	FM 98.00 MHz	FM 98.00 MHz	FM 98.00 MHz
02ch	FM 108.00 MHz	FM 108.00 MHz	FM 108.00 MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHZ	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
08ch	FM 98.50 MHz	FM 98.50 MHz	FM 98.50 MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10 MHz	FM 89.10 MHz	FM 89.10 MHz
11ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
12ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
13ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
14ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
15ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
16ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
17ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
18ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
19ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz
20ch	FM 87.50 MHz	FM 87.50 MHz	FM 87.50 MHz

(Initial setting)

Insert the AC power cord plug in The electrical outlet while pushing the "POWER" key.

KR-A4050/5050 E

KR-A4050/5050

CIRCUIT DESCRIPTION

4. Test mode

Main unit test mode

- Setting method
 Turn the AC power ON while pushing the "TUNING DOWN" key.
- Cancellation method
 Turn the AC power OFF.
- 3) Contents
- Start of the main unit test mode The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key. Three operations are carried out in this case.
- Automatic power ON
- All fluorescent character display tubes and LED light up
- Initialization of all states except POWER ON/OFF
 The "all indications lit up" state is canceled by pushing any key of the main unit. The states changed during the test mode are initialized when the main unit test mode is canceled (AC power OFF).
- ② Automatic motor VR UP/DOWN (AMP) The (16-second UP → 16-second DOWN → Stop) operation of the motor VR is carried out when the "TAPE 2" key is operated.

Therefore, "TAPE 2 MONITOR" can not be changed over during the main unit test mode.

- MUTE signal output (AMP)
 No control of selector MUTE (MUTE 1) is carried out.
- 4 Test mode operation of $0 \sim 9$, + 10 (TUNER)
- a) When the +10 key is not operated, the channels 1 to 9 (keys 1 to 9), as well as the channel 10 (key 0) can be called.
- b) When the key + 10 is operated once, the channels 11 to 19 (keys 1 to 9) as well as the channel 20 (key 0), can be called.
- c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".
- ⑤ Processing of keys available only in the remote controller
- a) Processing related to the AMP: None
- b) Processing related to the TUNER: None
- 6 Cancellation of the main unit test mode The test mode is canceled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

CIRCUIT DESCRIPTION

Timing Chart

1 POWER ON

Port number of the μ -Com POWER (13) /MUTE1 (53) /MUTE2 (12) SEL IC (9, 10, 54) * 1 Electrical VOL IC (9, 10, 46) * 3 SPEAKER RELAY (14~16) FL DRIVE (1~7, 61~80) LED DRIVE (18) *4 Serial communication (41, 42) *2 PLL IC (9~11) 500 ms ab. 300 ms 500 ms

- *1. Output of data to the selector IC and the electronic VOL. IC is continued during the time t1 to prevent unstable state of the IC. Moreover, resistors are connected without fail in series with the control lines of the selector IC and the electronic volume IC.
- *2. This signal is outputted when the forcible MONO control signal of the TUNER is outputted from the port of the PLL IC (receiver).
- *3. Protection detection is started immediately before connecting the SPEAKER RELAY.
- *4. The SYSTEM ON code is outputted after the time t1 in the case of single item as well as system component AMP, and RECEIVER.
- 2 POWER OFF

POWER (13)

MUTE1 (53)

MUTE2 (12)

SEL IC (9, 10, 54)

Electrical VOL IC (9, 10, 46)

SPEAKER RELAY (14~16)

FL DRIVE (1~7, 61~80)
LED, DRIVE (18)

Serial communication (41, 42)

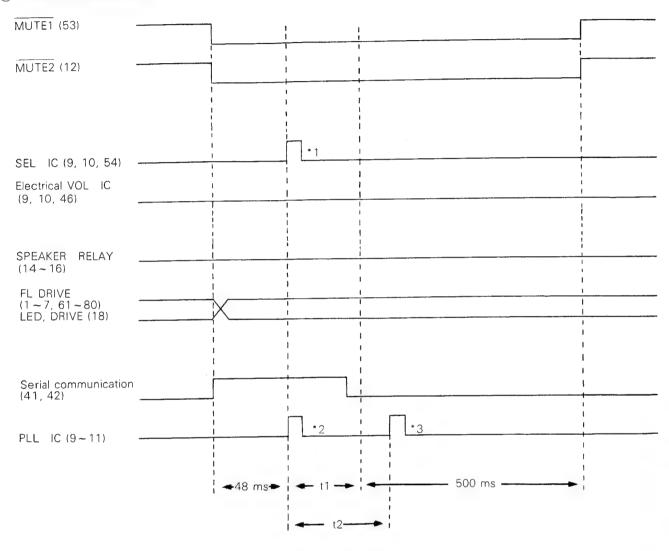
PLL IC*2 (9~11)

-48ms → ab. 400 ms—

- *1. The disconnection of the AC OUTLET is delayed to drop the mechanism of the DECK connected to the AC OUTLET (SWITCHED).
- *2. This signal is outputted in the case of receiver.

CIRCUIT DESCRIPTION

3 Selector changeover



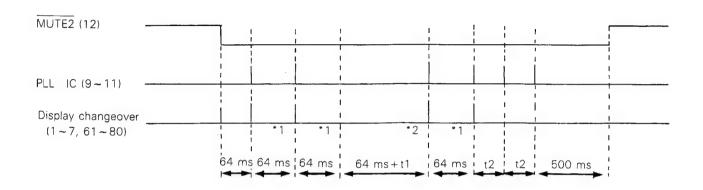
- t1: Data transmission time to the selector IC, DSP IC, etc.
- t2: 80 ms (+80 ms) IF COUNT time
- *1. Pay special attention to the oscillation when switching. In particular, before switching the input selector, make sure of opening the REC OUT SW once.

Since data before changeover are left in the RAM for DELAY when the surround is composed by using DSP IC and the like, data of the current surround mode are sent once again to the DSP IC and the like after clearing the RAM for DELAY.

- *2. Receivers without TUNER MUTE set the lower frequency limit of AM in the PLL IC, except when the selector is set to TUNER.
- *3. The IF count completion data is set with this timing when IF count is being carried out.

CIRCUIT DESCRIPTION

(4) AF SEARCH



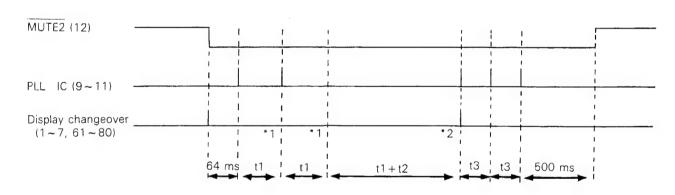
t1: 560 ms (RDS CHECK)

t2: 80 ms (Once or twice/IF count time)

*1: When SD = High (Without station)

*2: When SD = Low (With station)

5 PTY SEARCH



t1: 32 ms (BAND EDGE = 64 ms)

t2: 480 mS + 240 mS (RDS CHECK)

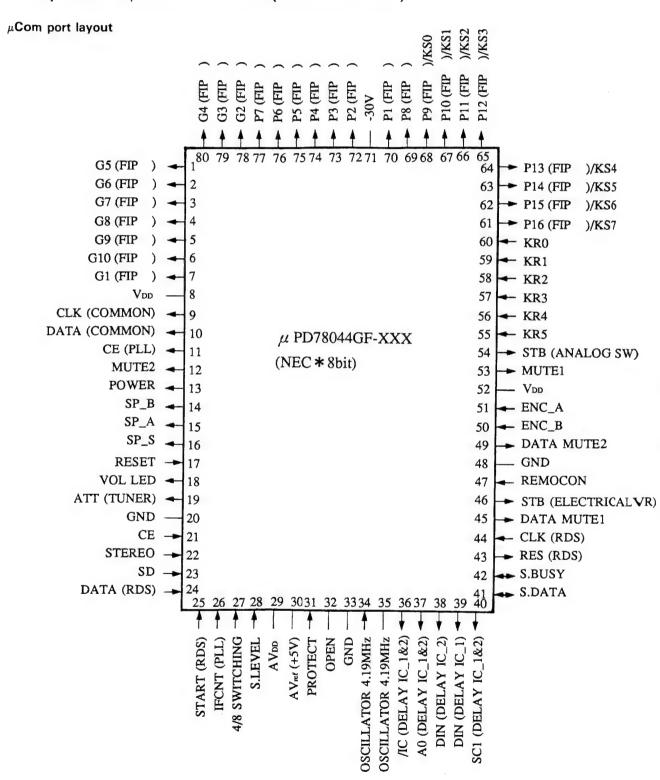
t3: 80 ms (Once or twice/IF count time)

*1: When SD = High (Without station)

*2: When SD = Low (With station)

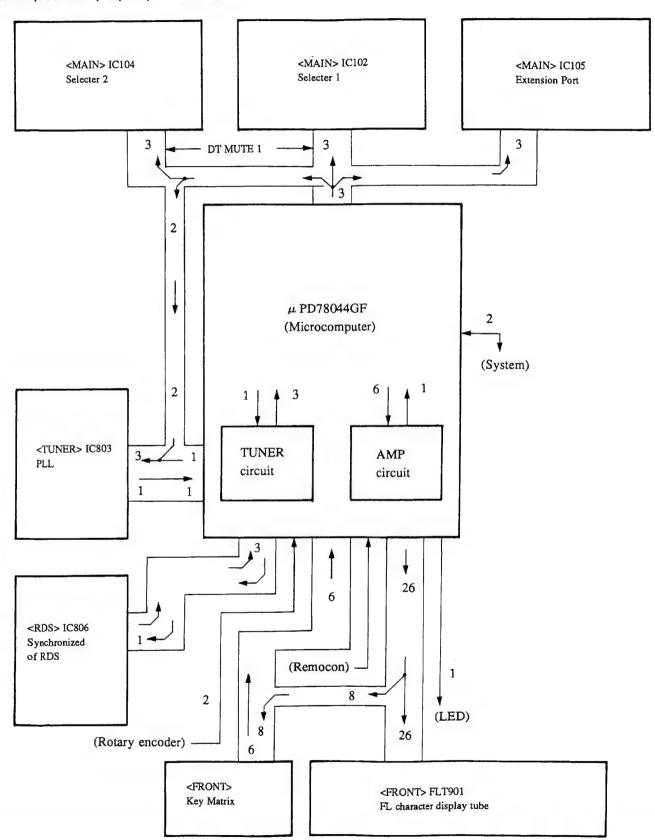
CIRCUIT DESCRIPTION

Microprocessor: µPD78044GF-021 (Front PCB: IC901)



CIRCUIT DESCRIPTION

Microprocessor periphery block Diagram



CIRCUIT DESCRIPTION

Pin description

Pin Number	Port I/O	Name	Description
1	OUT	G5	FL gird 5
2	OUT	G6	FL grid 6
3	OUT	G7	FL grid 7
4	OUT	G8	FL grid 8
5	QUT	G9	FL grid 9
6	OUT	G10	FL grid 10
7	OUT	G1	FL gird 1
8	_	VDD	Microprocessor power supply
9	OUT	CLK (COMMON)	Clock for control IC (ANALOG SW/PLL IC/Electronic VOL)
10	OUT	DATA (COMMON)	Data for control IC (ANALOG SW/PLL IC/Electronic VOL)
11	OUT	CE (PLL)	PLL CE
12	OUT	MUTE2	Amplifier MUTE control H: MUTE OFF L: MUTE ON
13	OUT	POWER	Power relay control H: POWER ON L: POWER OFF
14	OUT	SPB	Speaker B relay control H: SP_B ON L: SP_B OFF
15	OUT	SP_A	Speaker A relay control H: SP_A ON L: SP_A OFF
16	OUT	SP_S	Surround speaker relay control H: SP_S ON L: SP_S OFF
17	IN	RESET	Microprocessor reset
18	OUT	VOL LED	VOLUME LED control H: LED OFF L: LED ON
19	OUT	ATT (TUNER)	Attenuator control H: ATT ON L: ATT OFF
20		GND	A/D power supply
21	IN	CE	Microprocessor CE
22	IN	STEREO	Stereo signal detection H: MONAURAL L: STEREO
23	IN	SD	Tuning signal detection H: NOT TUNED L: TUNED
24	IN	DATA (RDS)	RDS data
25	M	START (RDS)	RDS start bit
26	IN	IFCNT (PLL)	IF CNT data (PLL DO)
27	IN	4/8 Changeover	Speaker impedance switching H: 4 Ω L: 8 Ω
28	IN	S. LEVEL	SIGNAL level (A/D)
29	_	AVDD	A/D power supply
30		AVref	A/D reference voltage (+5 V)
31	IN	PROTECTION	Protection detection H: PROTECTION L: NORMAL
32	_	OPEN	
33		Vss (GND)	Microprocessor power supply
34	IN	X1	4.19 MHz oscillator
35	OUT	X2	4.19 MHz oscillator
36	OUT	/IC (DELAY1 & 2)	DELAY IC 1 & 2 initial clearing
37	OUT	A0 (DELAY 1 & 2)	DELAY IC 1 & 2 address/data
38	OUT	DIN (DELAY 1)	DELAY IC 1 data
39	OUT	DIN (DELAY 2)	DELAY IC 2 data
40	OUT	SC1 (DEALY 1 & 2)	DELAY IC 1 & 2 clock

CIRCUIT DESCRIPTION

Pin Number	Port I/O	Name	Description
41	1/0	S. DATA	8 bit system DATA
42	1/0	S. BUSY	8 bit system BUSY
43	OUT	RESET (RDS)	RDS reset
44	IN	CLK (RDS)	RDS clock
45	OUT	DT MUTE 1	Data MUTE 1 H: DATA MUTE ON L: DATA MUTE OFF
46	OUT	STB (Electrical VOL)	Electronic VOL STB
47	IN	REMOCON	Remote controller input
48		GND	
49	OUT	DT MUTE 2	Data MUTE 2 H: DATA MUTE ON L: DATA MUTE OFF
50	IN	ENC_B	Encoder input B
51	IN	ENC_A	Encoder input A
52		VDD	Microprocessor power supply
53	OUT	MUTE 1	Selector MUTE control H: MUTE OFF L: MUTE ON
54	OUT	STB (ANALOG SW)	Analog SW STB
55	IN	KR5	Key return 5
56	IN	KR4	Key return 4
57	IN	KR3	Key return 3
58	IN	KR2	Key return 2
59	IN	KR1	Key return 1
60	IN	KRO	Key return 0
61	OUT	P16/KS7	FL segment 16/Key scan 7
62	OUT	P15/KS6	FL segment 15/Key scan 6
63	OUT	P14/KS5	FL segment 14/Key scan 5
64	OUT	P13/KS4	FL segment 13/Key scan 4
65	OUT	P12/KS3	FL segment 12/Key scan 3
66	OUT	P11/KS2	FL segment 11/Key scan 2
67	OUT	P10/KS1	FL segment 10/Key scan 1
68	OUT	P9/KS0	FL segment 9/Key scan 0
69	OUT	P8	FL segment 8
70	OUT	P1	FL segment 1
71	_	-30 V (Vload)	FL drive power supply
72	OUT	P2	FL segment 2
73	OUT	P3	FL segment 3
74	OUT	P4	FL segment 4
75	OUT	P5	FL segment 5
76	OUT	P6	FL segment 6
77	OUT	P7	FL segment 7
78	OUT	G2	FL grid 2
	OUT	G3	FL gird 3
80	OUT	G4	FL grid 4

ADJUSTMENT

AM. Section : If alignment piont is "_", Confirm the value.

If not, replace the front end pack.

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM S	ECTION		SELECTOR	R:FM			<u> </u>
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev 60dBµ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L805 (TUNER UNIT)	0 V	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev 60dBµ (ANT. input)	Connect a Distortion meter (1kHz)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	MINIMUM Distortion (L or R)	(b)
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev 60dBµ (ANT. input)	Connect a DC voltmeter between TP801 and TP802.	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0 V	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev Selector: L or R Pilot: ±6.0kHz dev 60dBµ (ANT. input)	(B)	98.0MHz	IFT (FRONT end PACK)	Minimum distortion (L or R)	(c)
5	SEPARATION	(C) 98.0MHz 1kHz, ±40kHz dev Pilot: 6kHz dev Selector: L or R 60dBµ (ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	MINIMUM CROSSTALK	(b)
6	TUNING LEVEL	(A) 98.0MHz 0 dev 17dBµ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR802 and stop at the point where FLT 901 (TUNED) goes on.	(d)
AM S	ECTION	·····	SELECTOR	R:AM			
(1)	TUNING LEVEL	(D) 999МНz 26dВµ (ANT. input)	(B)		VR804 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	(b)
AUDIO	O SECTION						
(2)	IDLE CURRENT		Connect a DC voltmeter across CP1 (L) CP2 (R) (MAIN UNIT)	volume : 0	VR201 (L) VR202 (R) (MAIN UNIT)	10mV	(e)

REGLAGE

Section AM : Sile point d'alignement est-, confirmer la valeur. Sinon, remplacer le bloc avac.

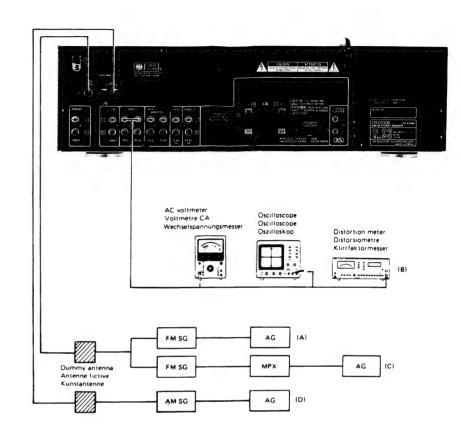
N.	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECT	ION MF		SELECTEUR	:FM		-	
1	DISCRIMINATEUR	(A) 98.0MHz 1kHz. ±40kHz dév 60dBµ (Entrée ANT)	Relier un voltmètre CC entre les TP801 et TP802 (TUNER UNIT)	AUTO ou MONO 98.0MHz	L805 (TUNER UNIT)	0 V	(a)
2	DISCRIMINATEUR	(C) 98.0MHz 1kHz, ±40kHz dèv 60dBµ (Entrèe ANT)	Relier un clistorsionmètre (1kHz)	AUTO ou MONO 98.0MHz	L806 (TUNER UNIT)	Distorsion minimale (L ou R)	(b)
3	DISCRIMINATEUR	(C) 98.0MHz 1kHz,±40kHzdèv 60dBµ (Entrèe ANT)	Relier un voltmètre CC entre les TP801 et TP802 (TUNER UNIT)	AUTO ou MONO 98.0MHz	L805 (TUNER UNIT)	0 V	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHzdév Selection :L ου R Signal pilote : ±6.0kHzdév 60dBμ (Entrée ANT)	(B)	98.0MHz	IFT (Tête H.F.)	Distorsion minimale. (L ou R)	(c)
5	SEPARATION	(C) 98.0MHz 1kHz,±40kHzdév Selection : L ou R Signal Pilot : 6kHzdév 60 dΒμ (Entrée ANT)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Diaphonie minimale.	(b)
6	NIVEAU D'ACCORDER	(A) 98.0MHz 0dév 17dΒμ (Entrée ANT)	(B)	AUTO ou MONO 98.0MHz	VR801 (TUNER UNIT)	Ajuster VR802 et arrèter le mouve- ment de moment oú le FL901 (TUNED) s'allume.	(d)
SECT	TION MA		SELECTEU	R:AM			
(1)	NIVEAU D'ACCORDER	(D) 999kHz 26dBµ (Entrée ANT)	(B)	_	VR804 (TUNER UNIT)	Ajuster VR801 et arréter le mouvement de moment oú le FL901 (TUNED) s' allume	(d)
SECT	TION AUDIO						
(1)	COURANE DE PLARISATION	_	Counnecter un voltmètre CC sur CP1 (L) CP2 (R) (MAIN UNIT)	volume : 0	VR201 (G) VR202 (D) (MAIN UNIT)	10mV	(e)

ABGLEICH

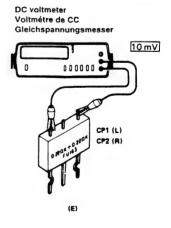
MW-Teil: Wenn der Ausrichtpunkt—ist, den Wert überprifen.
Wenn nicht, die Fronteinheit auswechseln.

	Wenn nicht, die Fronteinheit auswechseln.											
NR	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	TUNER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FÜR	ABB.					
UKW	-EMPFANGSABTEIL	UNG		WÄHLER	:FM							
1	DISKRIMINATOR	(A) 98.0MHz 1kHz. ±40kHz Hub 60dBµ (ANT-Eingang)	Einen Gleichspan- nungsmesser zwischen TP801 UND TP802 anschlie ßen. (TUNER UNIT)	AUTO oder MONO 98.0MHz	L805 (TUNER UNIT)	0 V	(a)					
2	DISKRIMINATOR	(C) 98.0MHz DISKRIMINATOR 1kHz. ±40kHz Hub 60dBµ (ANT-Eingang)		AUTO oder MONO 98.0MHz	L806 (TUNER UNIT)	Minimal Klirrfaktor. (L oder R)	(b)					
3	DISKRIMINATOR	(C) 98.0MHz 1kHz. ±40kHz Hub 60dBμ (ANT-Eingang)	Einen Gleichspan- nungsmesser zwischen TP801 UND TP802 anschlie ßen.	AUTO oder MONO 98.0MHz	L805 (TUNER UNIT)	0 V	(a)					
4	KLIRRFAKTOR (STEREO)	(C) 98.0MHz 1kHz, ±40kHz Hub Wähler: L oder R Pilotten: ±6.0kHz Hub 60 dBµ (ANT-Eingang)	(B)	98.0MHz	IFT (Frontend)	Minimal Klirrfaktor. (L ou R)	(c)					
5	STEREO KANAL TRENNUNG	(C) 98.0MHz 1kHz, ±40kHz Hub Wähler: L oder R Pillotten: 6kHz Hub 60dBµ (ANT-Eingang)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimales ubersprechen.	(b)					
6	ABSTIMM PEGEL	(A) 98.0MHz 0 Hub 17dBµ (ANT-Eingang)	(B)	AUTO oder MONO 98.0MHz	VR801 (TUNER UNIT)	Den Pegei wieder- stand aufdrehen, und dem VR802 Halt geben wobei den FL901 (TUNED) anzeiger leuchtet wird.	(d)					
MW-E	EMPFANGSABTEILUI	NG		WÄHLER	: AM							
(1)	ABSTIMM PEGEL 999kHz 26dBµ (ANT-Eingang)		(B)	-	VR804 (TUNER UNIT)	Den Pegel wieder- stand aufdrehen, und dem VR801 Halt geben wobei den FL901 (TUNED) anzeiger leuchtet wird.	(d)					
AUDI	O —ABTEILUNG											
(1)	LEERLAUFSTROM	_	Einen Gleichspan- nungsmesser über CP1 (L) CP2 (R) anschließen. (MAIN UNIT)	Volume : 0	VR201 (G) VR202 (D) (RECEIVER UNIT)	10mV	(e)					

KR-A4050/5050 ADJUSTMENT/REGLAGE/ABGLEICH

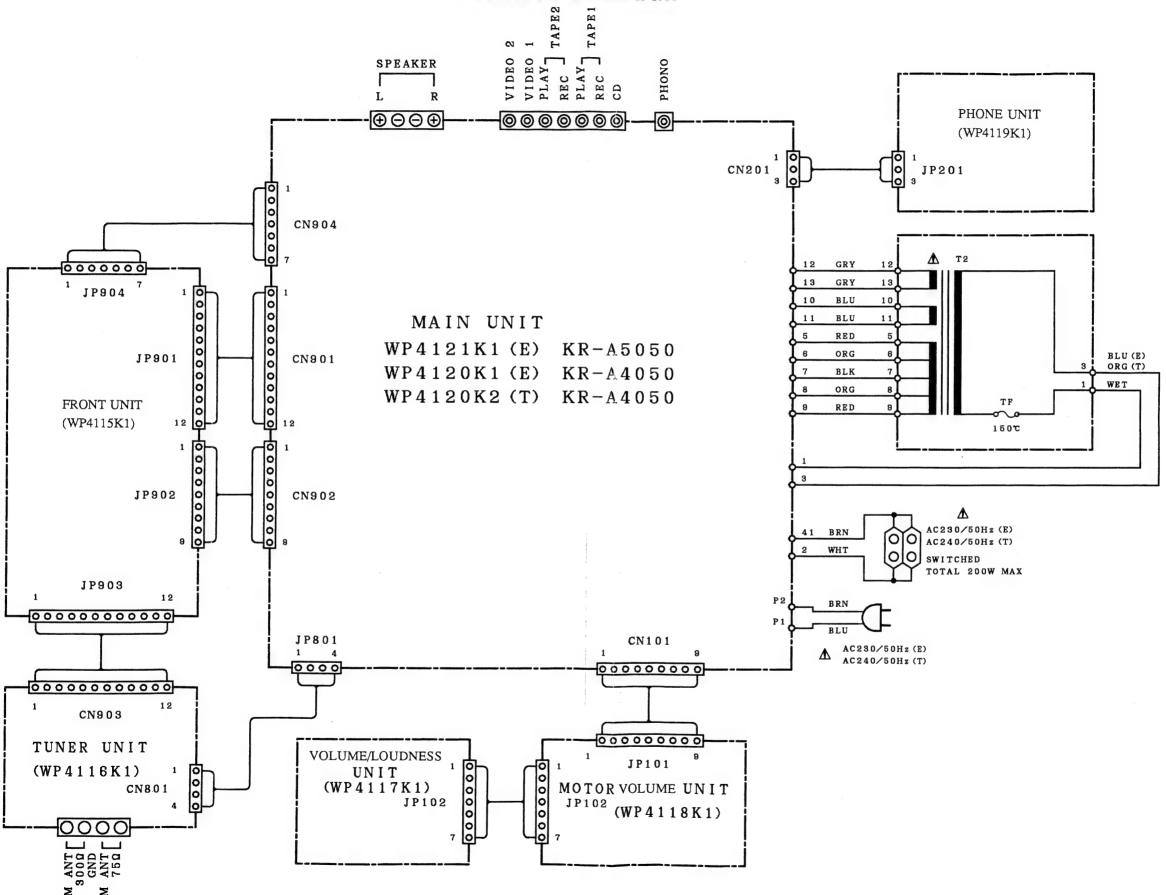


System connections/Raccordements du système/System-Anschlusse

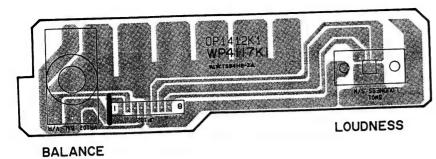


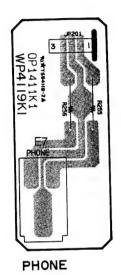
KR-A4050/5050 KR-A4050/5050

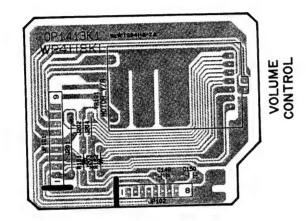
WIRING DIAGRAM

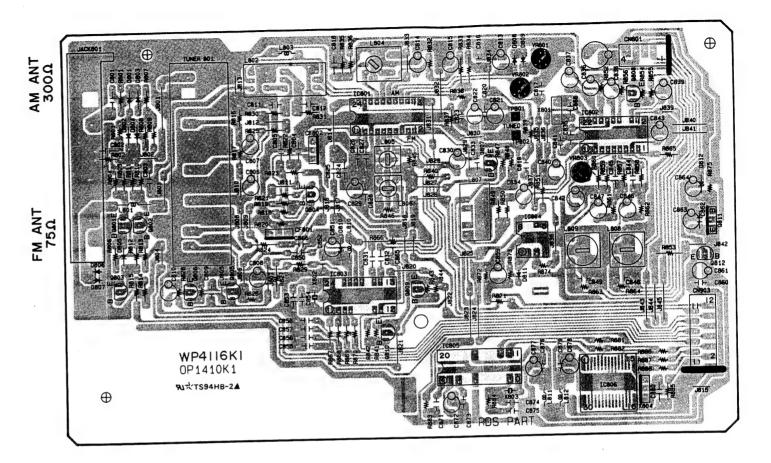


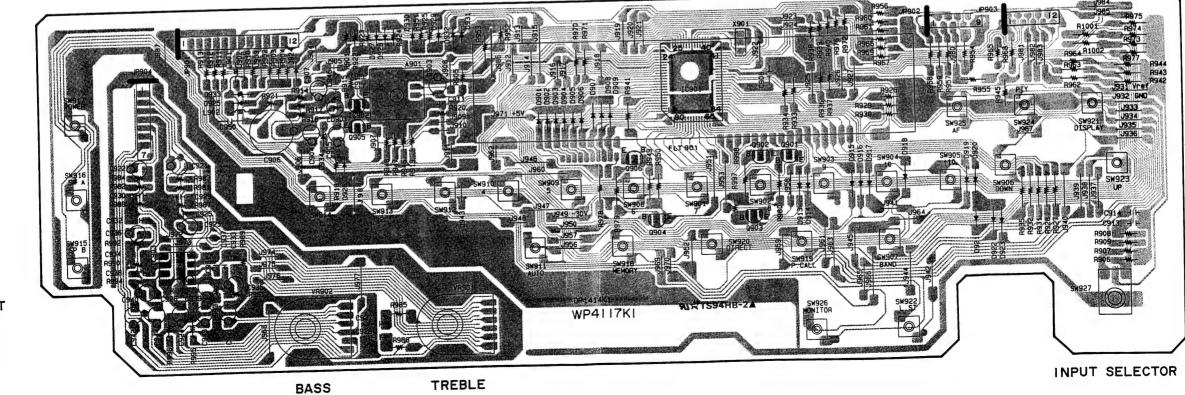
PC BOARD (Component side view)



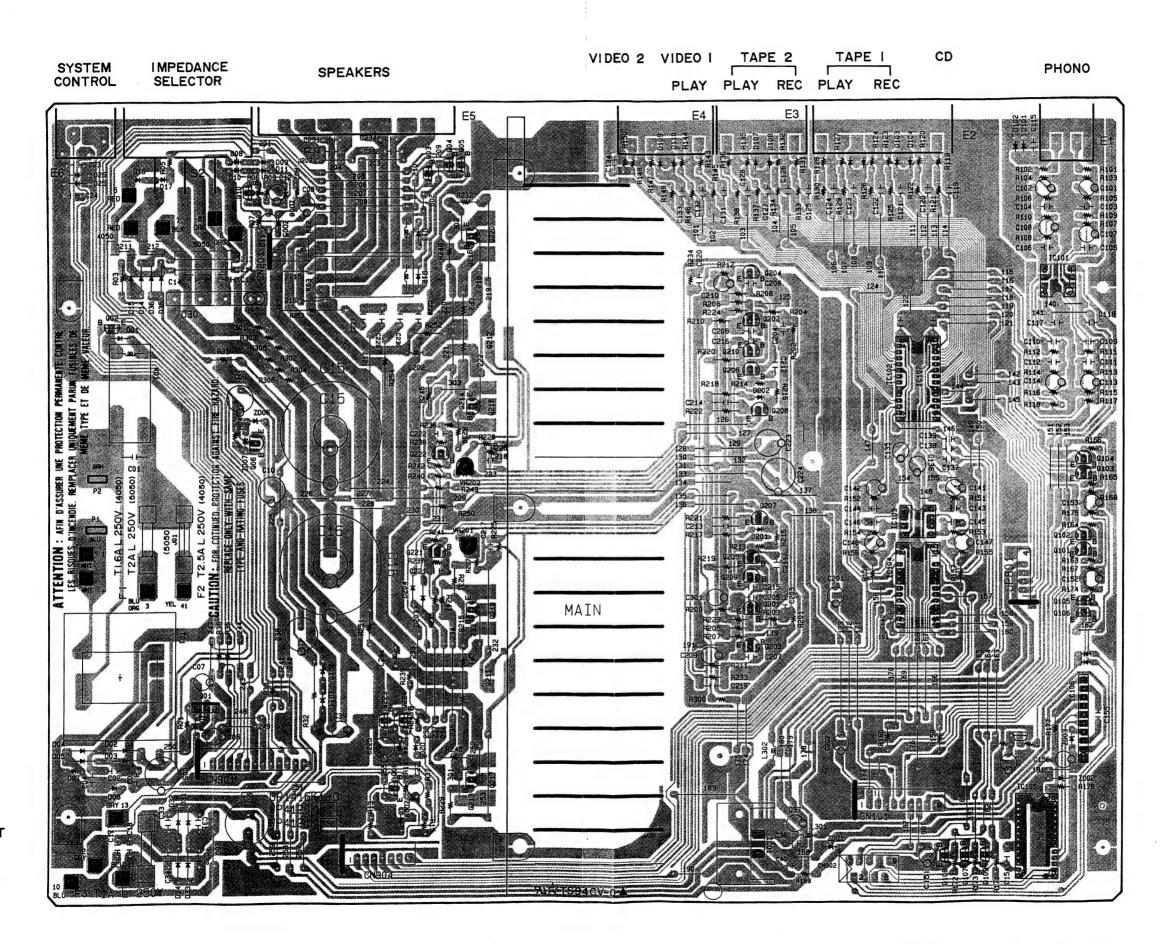




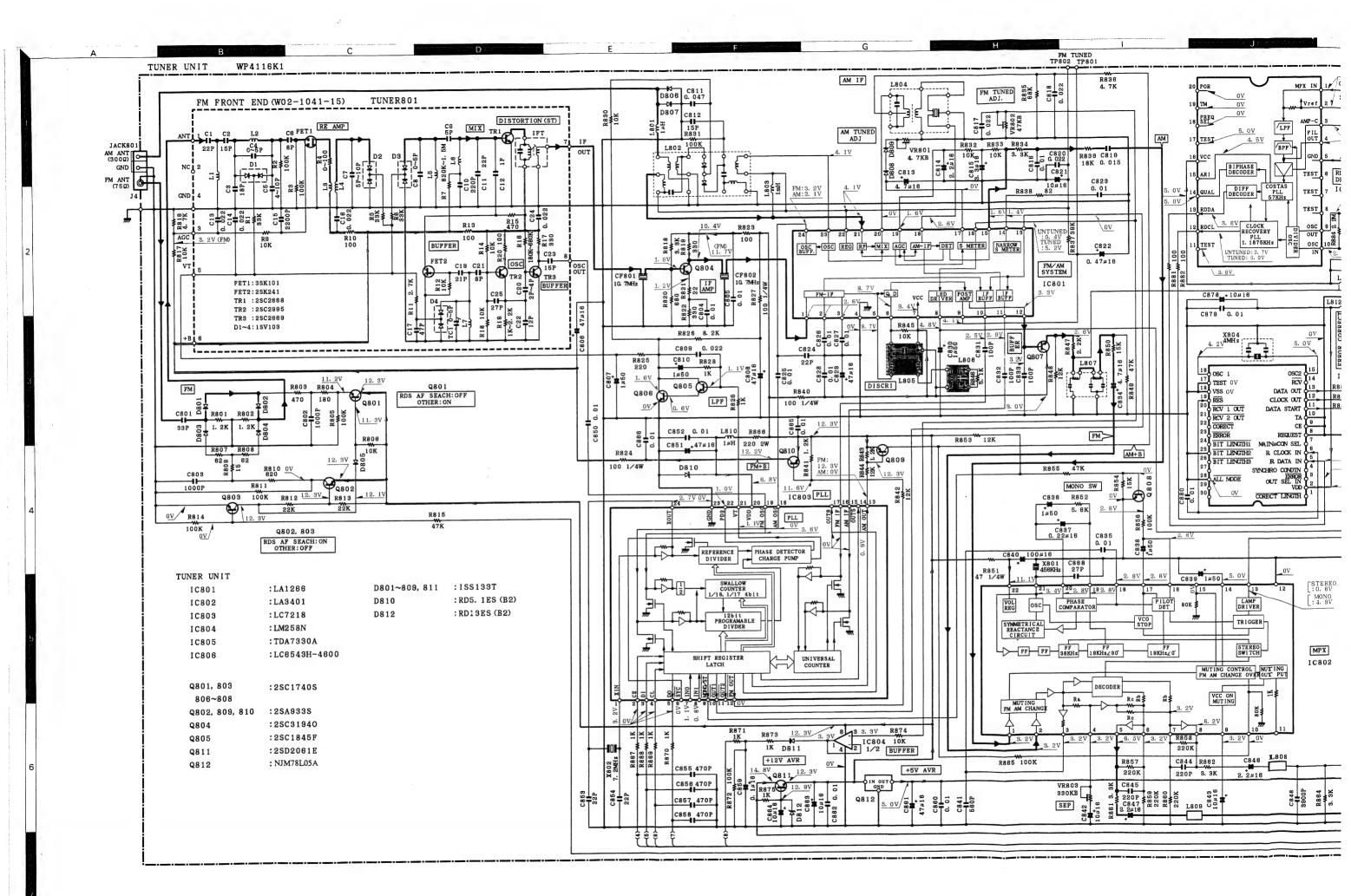


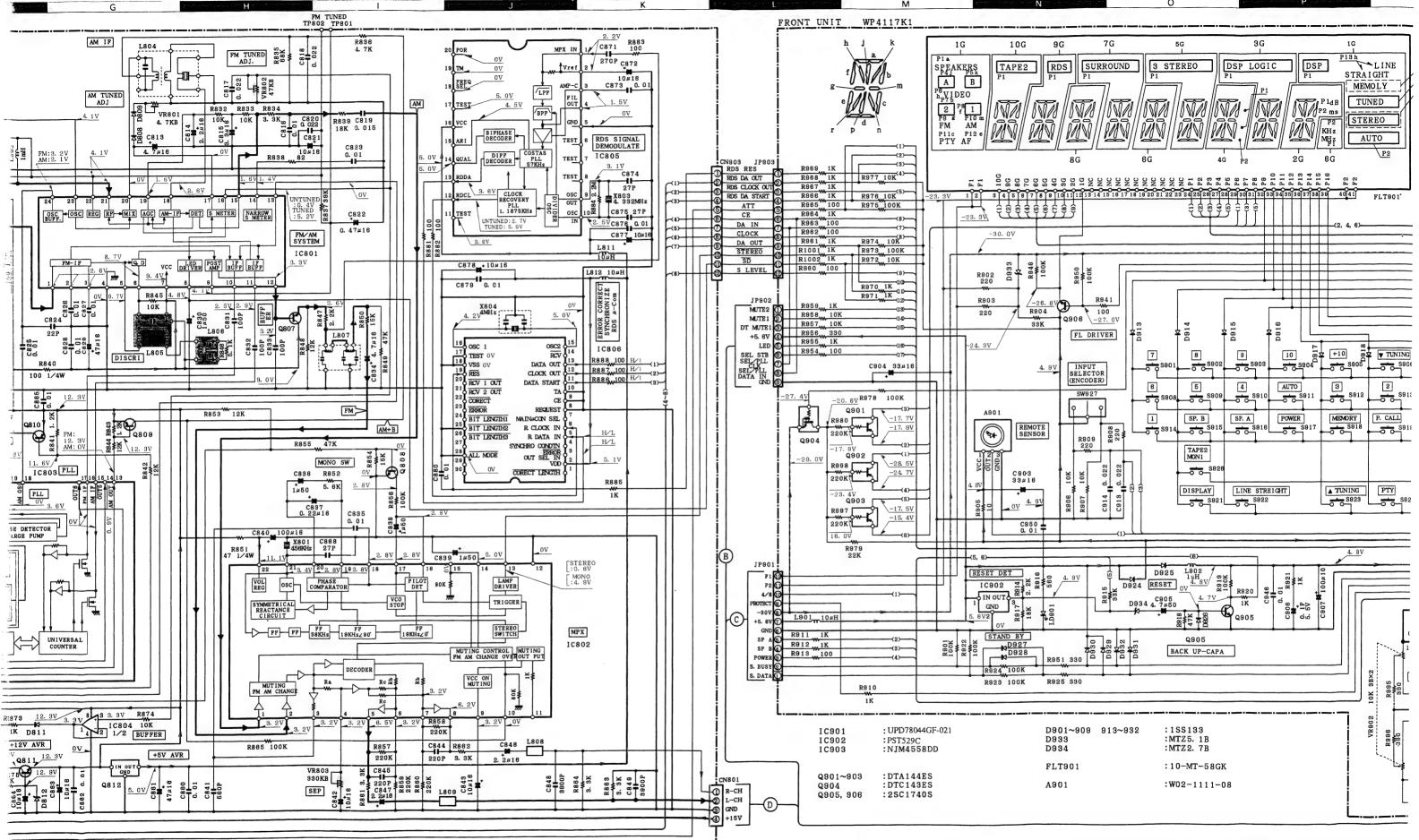


PC BOARD (Component side view)



FRONT



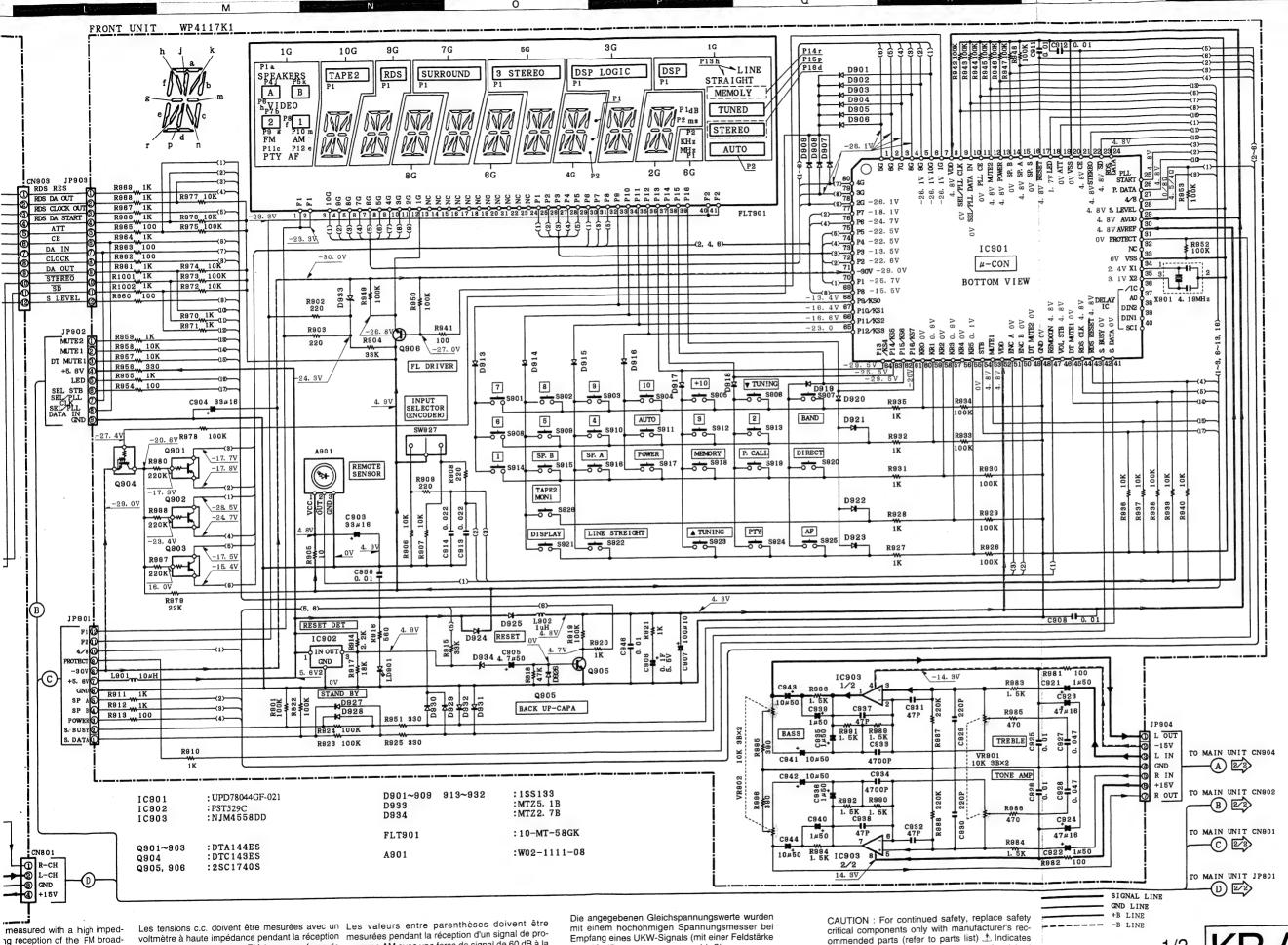


DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a singal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between indvidual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

signal de 60 dB à la borne ANT). Les valeurs peu- borne ANT). vent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de gramme AM avec une force de signal de 60 dB à la

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßweite aufgrund von Unterschieden zwischen einzelnen I nstrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenschluß) gemessen.



ng reception of the FM broadingal strength of 60 dB at the as may vary slightly due to variidual instruments or/and units. ses are as measured during broadcast signal (with a signal the ANT terminal).

signal de 60 dB à la borne ANT). Les valeurs peu- borne ANT). vent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

d'un signal de programme FM (avec une force de gramme AM avec une force de signal de 60 dB à la

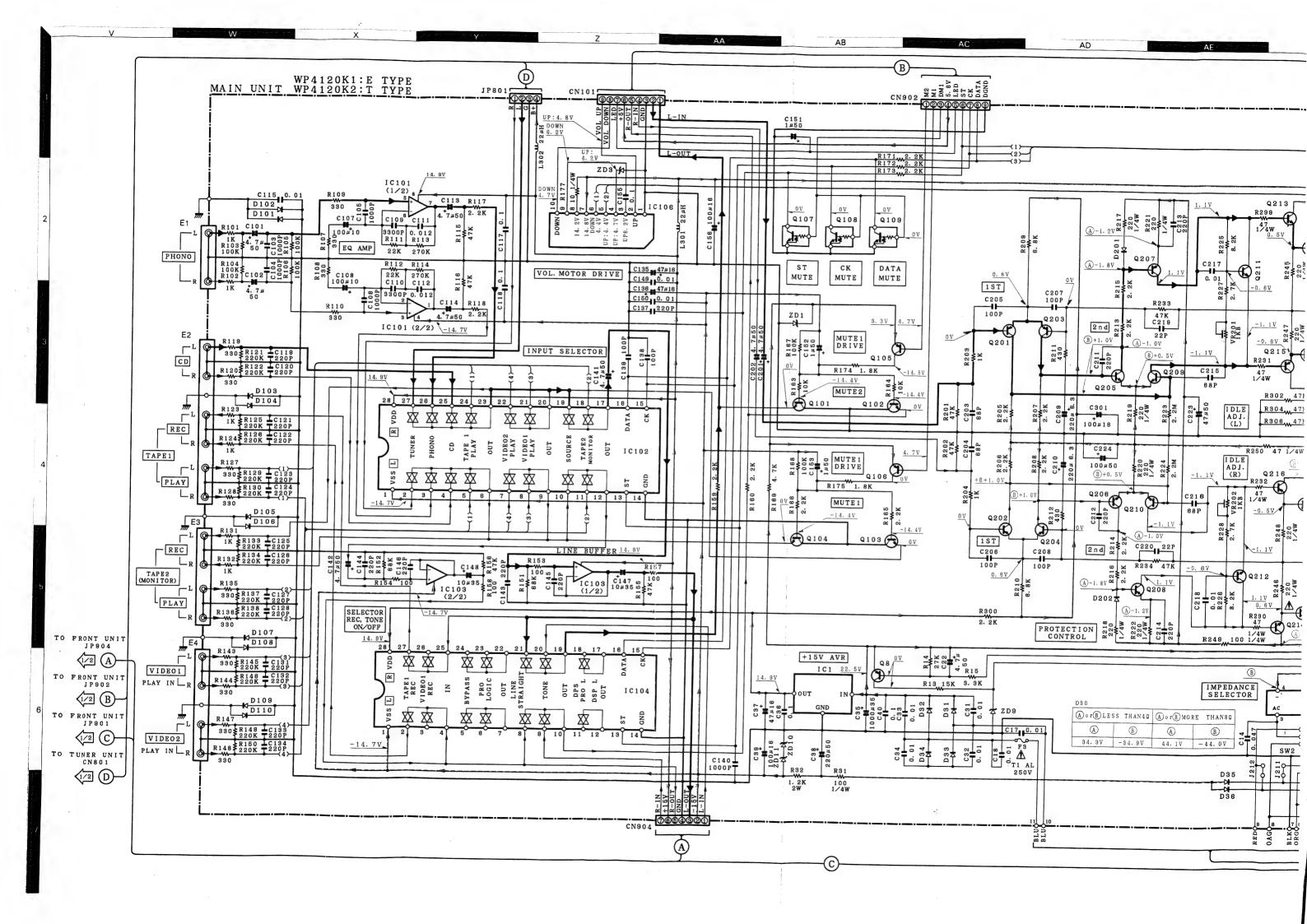
von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenschluß) gemessen.

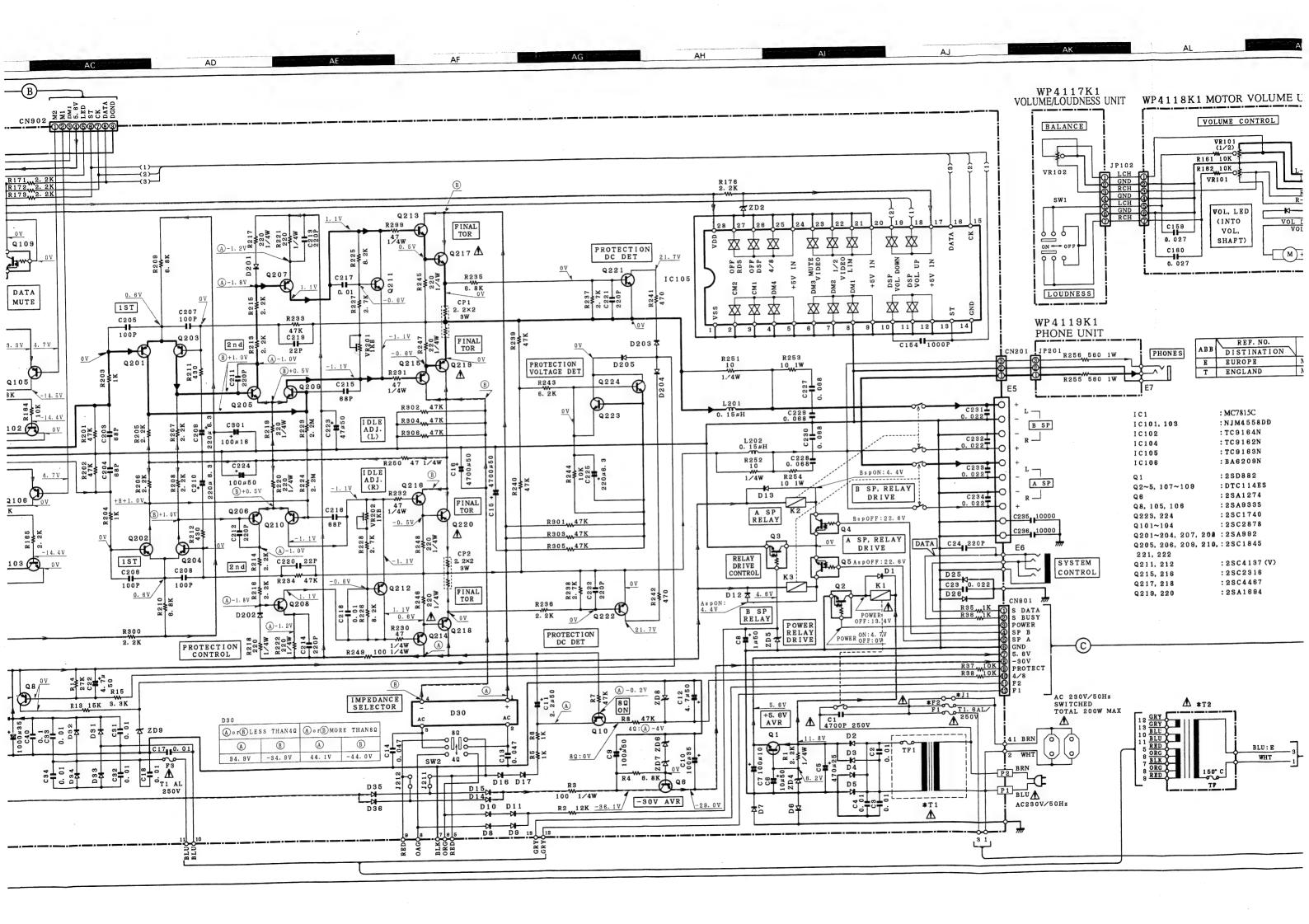
ommended parts (refer to parts list) 1. Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

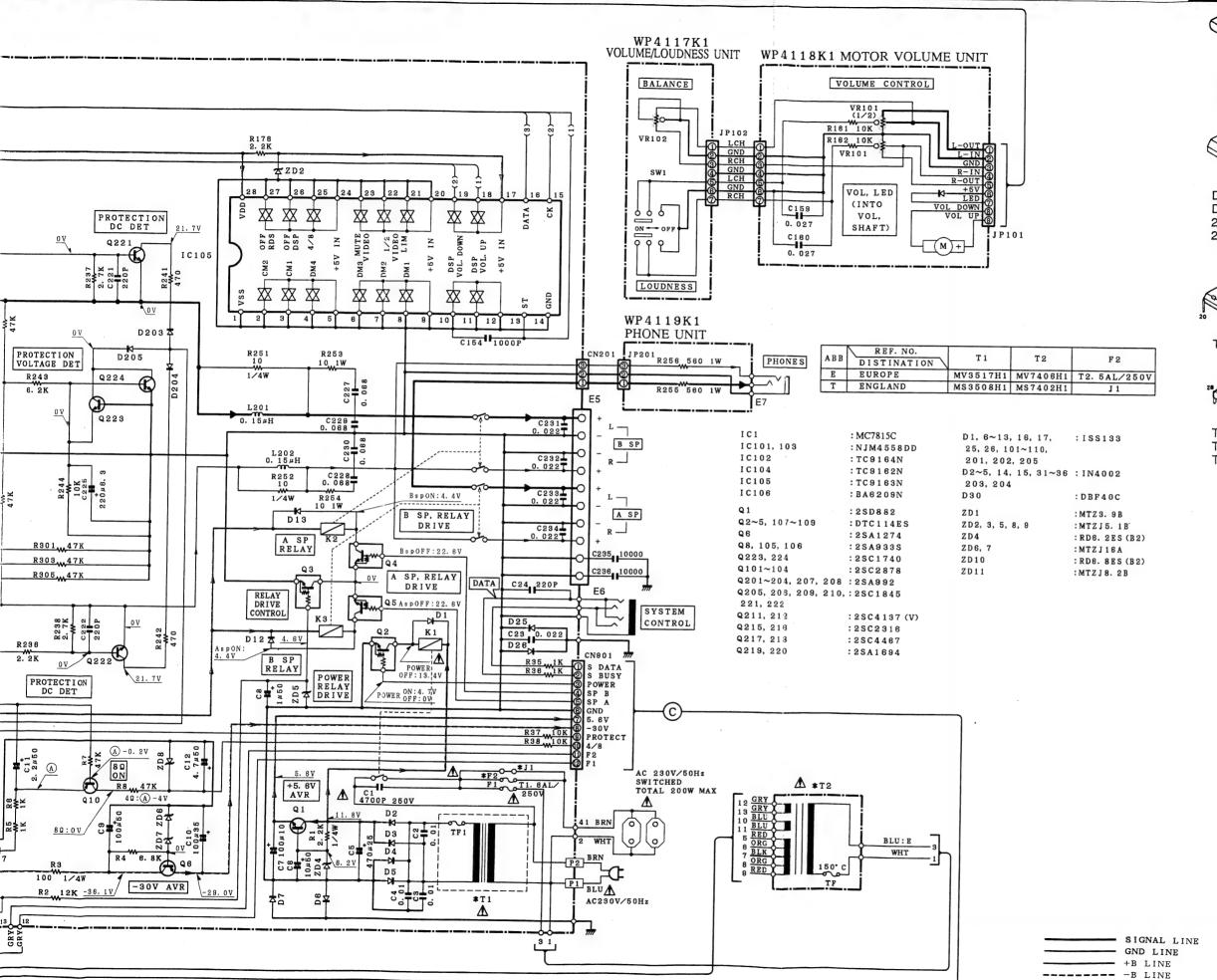
KR-A4050/5050

Y05-2760-10

KENWOOD

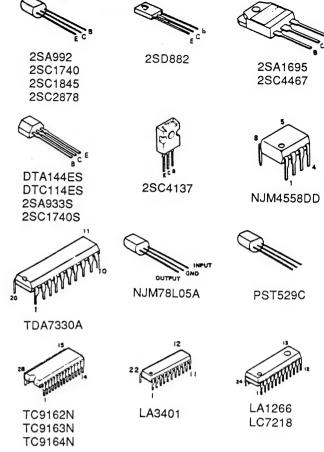






AJ

ΑН



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a singal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between indvidual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

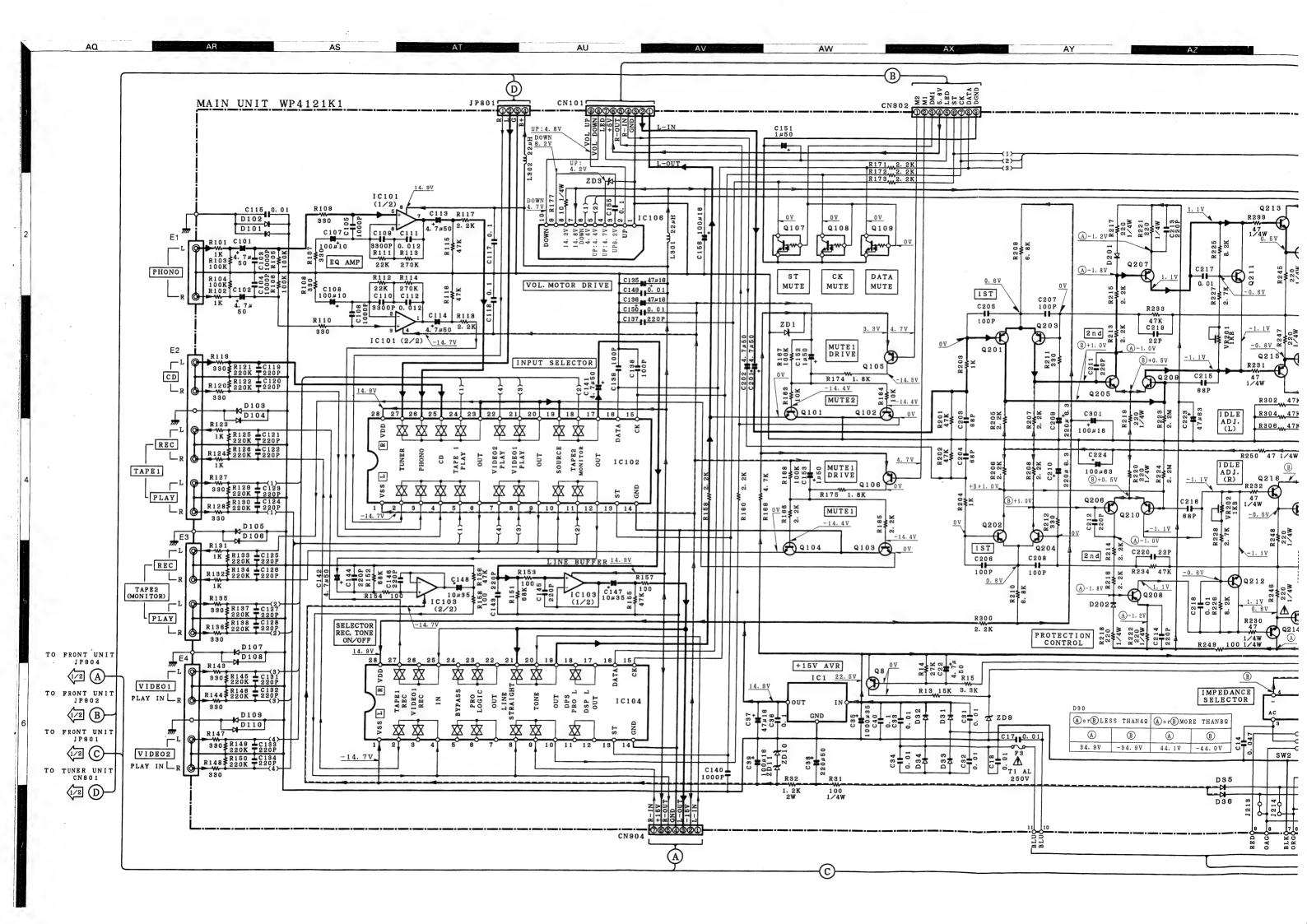
Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

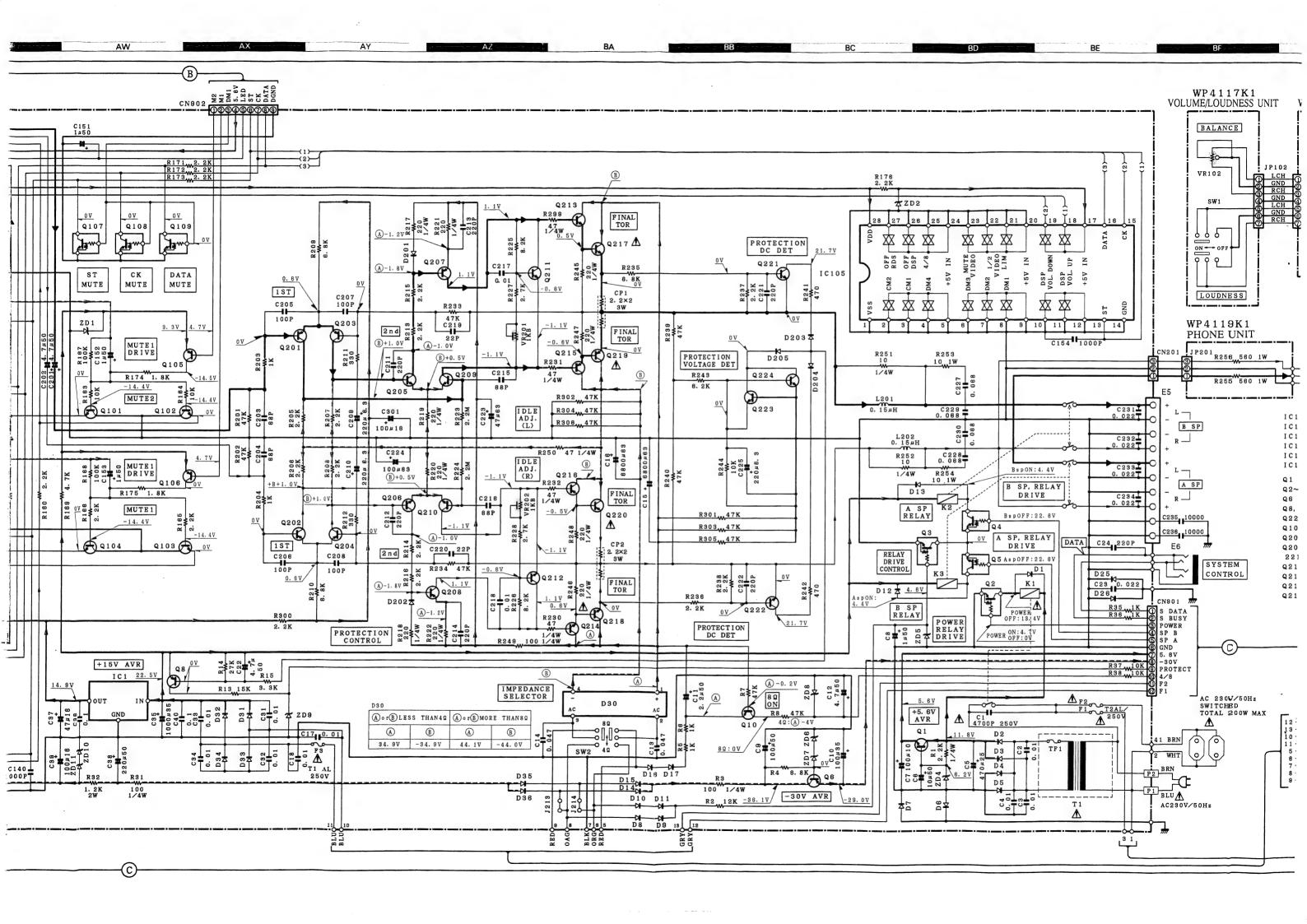
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenschluß) gemessen.

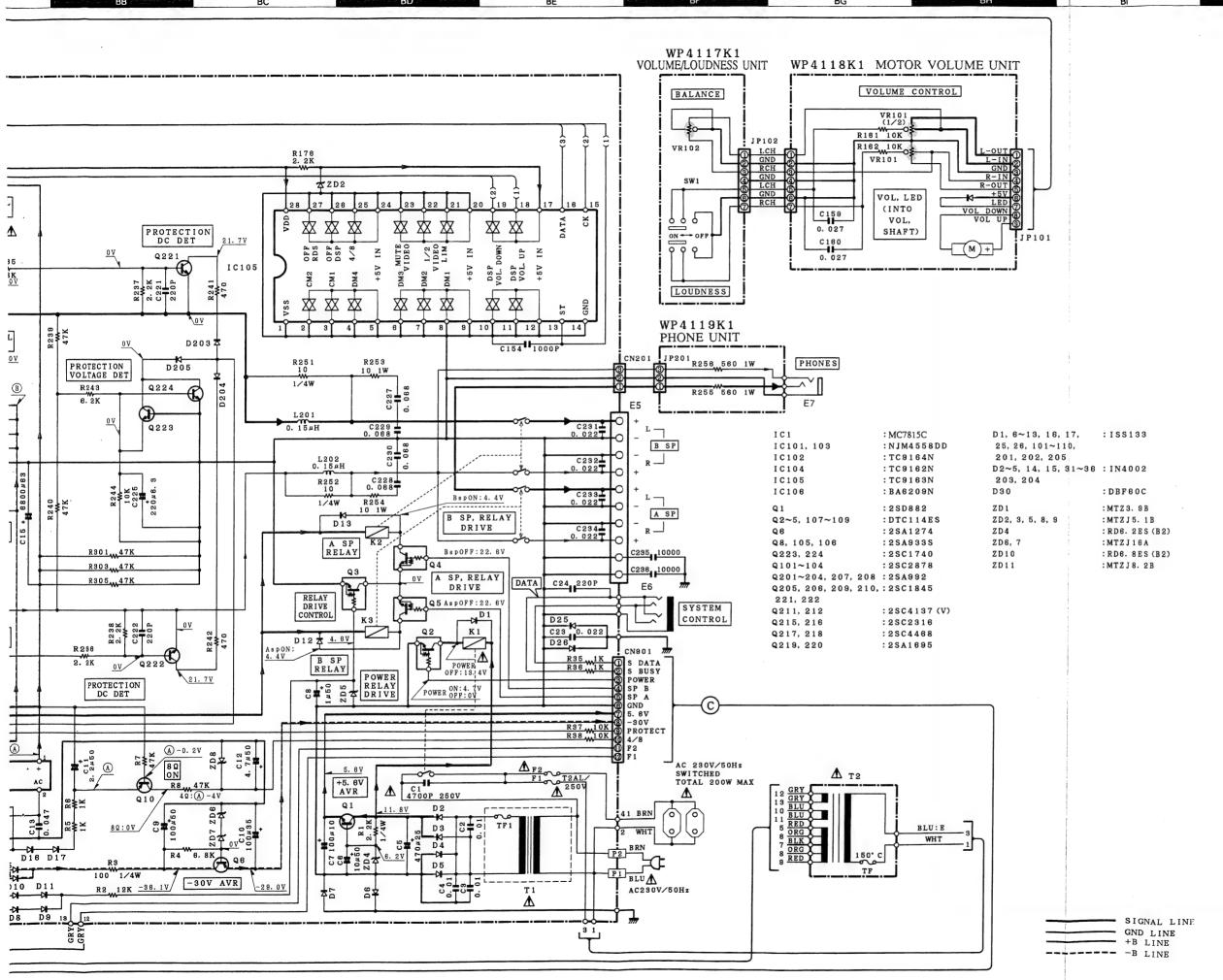
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list) \(\triangle \) Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

2/2

KR-A4050 KENWOOD







DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a singal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between indvidual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenschluß) gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

2/2

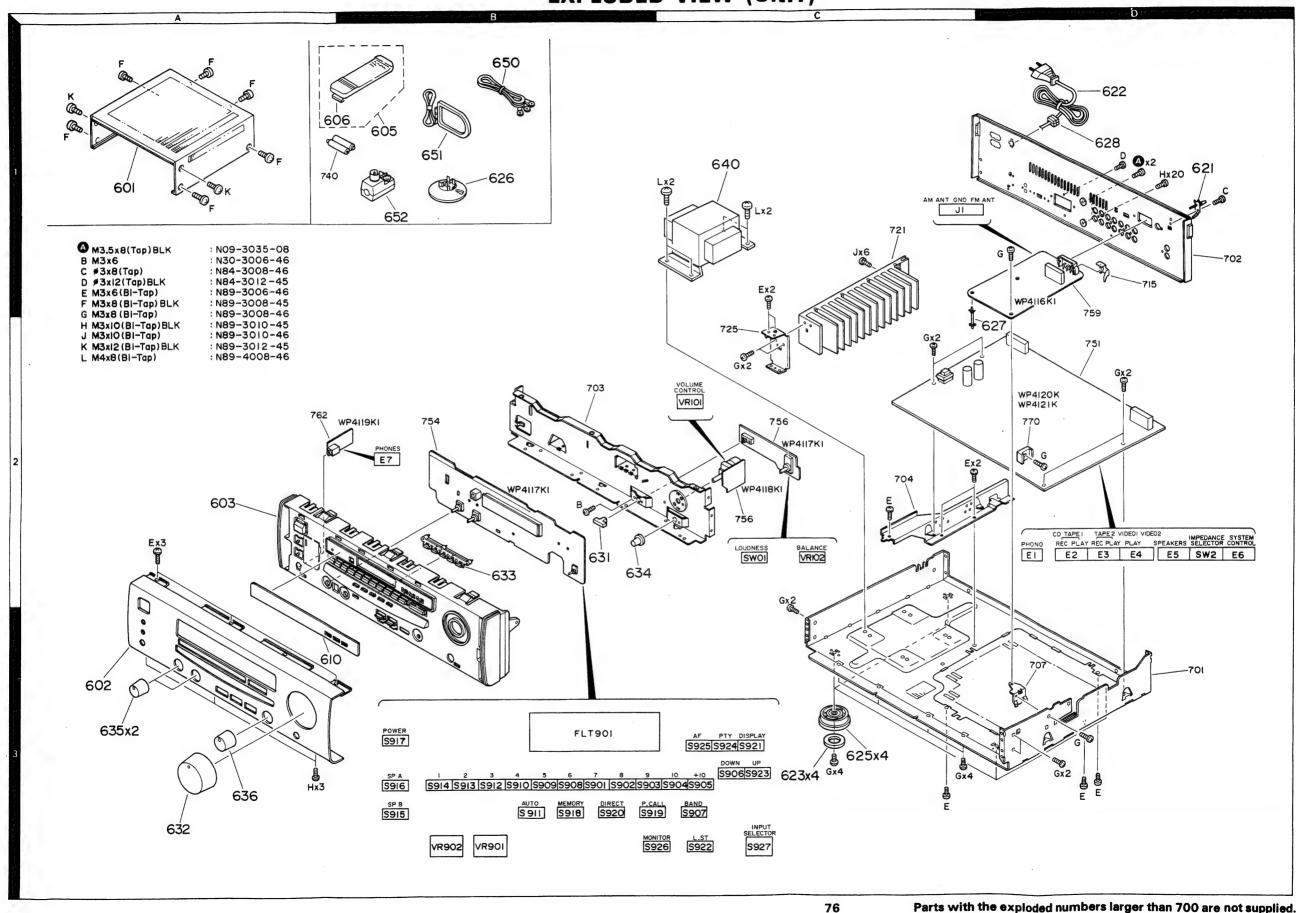
KR-A5050

Y05-2760-10

KENWOOD

KR-A4050/5050 KR-A4050/5050

EXPLODED VIEW (UNIT)



Ref. No.

参照番号

610

621 622 622 A50 A50

623

636

640 640

650 651 652

∆,

AA AA

Parts No.

部品番号

A01-3091-08 A60-0517-08 A22-1668-08 A70-0953-08 A09-0088-01

B10-2008-08 B46-0122-23 B46-0143-13 B60-1286-08 B60-1287-08

860-1288-08

CK45B2H103Z

E21-0023-08 E30-0459-05 E30-2718-05 E03-0055-05 E03-0085-05

G13-0297-08

H10-5661-08 H50-0728-08 H25-0647-08 H25-1505-08 H25-1506-08

J02-1099-08 J19-2815-04 J19-3631-08 J42-0199-08

K27-2105-08 K27-2107-08 K27-2110-08 K29-4444-08 K29-4445-08

K27-2111-08

L07-0823-08 L07-0824-08

N09-3035-08 N30-3006-46 N84-3008-46 N84-3012-45 N89-3006-46

N89-3008-45 N89-3008-46 N89-3010-45 N89-3010-46

N89-3012-45

N89-4008-46

T90-0176-05 T90-0184-08 T90-0185-05

P:Canada

E:Europe

M:Other Areas

KR-A4050

METALIC CABINET FRONT PANEL SUB PANEL REMOCON BATTERY COVER

CERAMIC

CUSHION

GND TERMINAL AC CORD AC CORD AC OUTLET AC OUTLET

FOOT ASSY ANTTENNA HOLDER UNIT HOLDER AC CORD BUSHING

KNOB PUSH KNOB VOLUME KNOB FUNCTION KNOB BALANCE KNOB CONTROL

KNOB SELECTOR

POWER TRANSFORMER POWER TRANSFORMER

TAPTITE SCREW
PAN HEAD MACHIN SCREW
BINDING HEAD TAPTITE SAREW
TAPTITE SCREW
BINDING HEAD TAPTITE SCREW

BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW

BINDING HEAD TAPTITE SCREW

T TYPE ANTENNA LOOP ANTTENA ANTTENNA ADAPTER

Description

部晶名/規格

FRONT GRASS
WARRANTY CARD
WARRANTY CARD
WARRANTY CARD
INSTRUCTION MANUAL (SPANISH)
INSTRUCTION MANUAL (ENGLISH)

INSTRUCTION MANUAL (FR,GE,DU)

POLYSTEREN FORMED FIXTUER CARTON BOX PROTECTION BAG PROTECTION BAG PROTECTION BAG

0.010UF Z

Address N

位 置

1A 3A 2A 1B 1A

3A

3C

2B 3A 2B 2B 3A

3A

1C 1C

1D 2B 1D 1D 2C

1A 3C,3D 3A,1D 1C

1 C

1B 1B 1B

Desti-Re-nation mark 仕 向備考

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NO.4

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	Ref. No.	Address			Description	Desti- Re-
	参照番号	位置	Parts 新	部品番号	部品名/規格	nation mark 仕 向備3
			-	KR-	A5050	
	601 602 603 605 606	1A 3A 2A 1B 1A	* * *	A01-3091-08 A60-0518-08 A22-1668-08 A70-0953-08 A09-0088-01	METALIC CABINET FRONT PANEL SUB PANEL REMOCON BATTERY COVER	
	610	3 A	* * * *	B10-2008-08 B46-0122-23 B60-1287-08 B60-1288-08 B60-1289-08	FRONT GRASS WARRANTY CARD INSTRUCTION MANUAL (ENGLISH) INSTRUCTION MANUAL (FR,GE,DU) INSTRUCTION MANUAL (ITALIAN)	
Δ Δ	621 622 A501	1 D 1 D		E21-0023-08 E30-0459-05 E03-0055-05	GND TERMINAL AC CORD AC OUTLET	
	623	3C	*	G13-0297-08	CUSHION	
	- - -		* * *	H10-5661-08 H50-0729-08 H25-0647-08 H25-1505-08 H25-1506-08	POLYSTEREN FORMED FIXTUER CARTON BOX PROTECTION BAG PROTECTION BAG PROTECTION BAG	
	625 626 627 628	3C 1B 1C 1D	* * *	J02-1099-08 J19-2815-04 J19-3631-08 J42-0199-08	FOOT ASSY ANTTENNA HOLDER UNIT HOLDER AC CORD BUSHING	
	631 632 633 634 635	2B 3A 2B 2B 3A	*	K27-2105-08 K27-2107-08 K27-2110-08 K29-4444-08 K29-4445-08	KNOB PUSH KNOB VOLUME KNOB FUNCTION KNOB BALANCE KNOB CONTROL	
	636	3 A		K27-2111-08	KNOB SELECTOR	
.1	640	1C	*	L07-0568-08	POWER TRANSFORMER	
	D	10 2B 1D 1D 2C	*	N09-3035-08 N30-3006-46 N84-3008-46 N84-3012-45 N89-3006-46	TAPTITE SCREW PAN HEAD MACHIN SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	
	G H J	1A 3C,3D 3A,1D 1C 1A	*	N89-3008-45 N89-3008-46 N89-3010-45 N89-3010-46 N89-3012-45	BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	
	L	1C		N89-4008-46	BINDING HEAD TAPTITE SCREW	
	651 652	18 18 18	NIIT	T90-0176-05 T90-0184-08 T90-0185-05 「(WP4121K1)	T TYPE ANTENNA LOOP ANTTENA ANTTENNA ADAPTER	
1	C1			KHR-9M4726M6	/ PHONE UNIT (WP4119K	.1)
	C2 -4 C5 C6 C7			CK45FF1H103Z KHR-PE0417D0 CE04KW1H100M CE04KW1A101M	CERAMIC	

L:Scandinavia K:USA P:Canada T:England E:Europe X:Australia M:Other Areas

Y:PX(Far East, Hawaii) Y:AAFES(Europe)

⚠ indicates safety critical components

indicates safety critical components.

× New Parts

78

L:Scandinavia

Y:PX(Far East, Hawaii)

Y:AAFES(Europe)

Parts without Parts No. are not supplied.

K:USA

T:England

X:Australia

E

Ref. No.	Addre	ss Ne	w Part	s No.	T	Dene-1-41		T	_
参照番号	1	Par	ts	書 号	台	Description 品名/規	档	Desti- nation 批 向	Re- mark 備考
C8 C9 C10 C11 C12			CEO4KW1F CEO4KW1F CEO4KW1F CEO4KW1F	1101M /101M 12R2M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	1.0UF 100UF 100UF 2.2UF 4.7UF	50WV 50WV 35WV 50WV 50WV		
C13 ,14 C15 ,16 C15 ,16 C17 ,18 C22			CK45F1H4 KHR-PE02 KHR-PE02 CK45FF1H CE04KW1H	21G1 22H1 1103Z	CERAMIC ELECTRO ELECTRO CERAMIC ELECTRO	0.047UF 4700UF 6800UF 0.010UF 4.7UF	Z 50WV 63WV Z 50WV		4 5
C23 C24 C31 -34 C35 C36		*	CK45FF1H CC45CH1H CK45FF1H KHR-PE04 CK45FF1H	221J 103Z 18E1	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	0.022UF 220PF 0.010UF 1000UF 0.10UF	Z J Z 35WV Z		
C37 C38 C39 C40 C101,102		*	CE04KW1C KHR-PE04 CE04KW1C CK45FF1H CE04KW1H	15G1 101M 104Z	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	47UF 220UF 100UF 0.10UF 4.7UF	16WV 50WV 16WV 2 50WV		
C103-106 C107,108 C109,110 C111,112 C113,114		*	CC45CH1H CE04KW1A CQ92FM1H CQ92FM1H CE04KW1H	101M 332J 123J	CERAMIC ELECTRO MYLAR MYLAR ELECTRO	1000PF 100UF 3300PF 0.012UF 4.7UF	J 10WV J J 50WV		
0115 0117,118 0119-128 0131-134 0135,136			CK45FF1H CK45FF1H CC45CH1H CC45CH1H CE04KW1C	104Z 221J 221J	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	0.010UF 0.10UF 220PF 220PF 47UF	Z Z J J 16WV		
0137 0138,139 0140 0141,142 0143-146		*	CC45CH1H: CC45SL1H CC45CH1H CE04KW1H: CC45CH1H:	101J 102J 4R7M	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	220PF 100PF 1000PF 4.7UF 220PF	J J 50₩V J		
2147,148 2149,150 2151-153 2154 2155		*	CE04KW1V CK45FF1H CE04KW1HC CC45CH1H CK45FF1H	103Z 010M 102J	ELECTRO CERAMIC ELECTRO CERAMIC CERAMIC	10UF 0.010UF 1.0UF 1000PF 0.10UF	35WV Z 50WV J Z		
156 201,202 203,204 205-208 209,210			CE04KW1C1 CE04KW1H4 CC45SL1H6 CC45SL1H1 CE04KW0J2	R7M 80J 01J	ELECTRO ELECTRO CERAMIC CERAMIC ELECTRO	100UF 4.7UF 68PF 100PF 220UF	16WV 50WV J J 6.3WV		
211,212 213,214 215,216 217,218 219,220			CC45CH1H2 CC45CH1H2 CC45SL1H6 CK45FF1H1 CC45CH1H2	21J 80J 03Z	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	220PF 220PF 68PF 0.010UF 22PF	J J J Z J		
221,222 223 223 224 224		*	CC45CH1H2 CE04KW1H4 CE04KW1J4 CE04KW1H1 KHR-PE041	21J 70M 70M 01M	CERAMIC ELECTRO ELECTRO ELECTRO	220PF 47UF 47UF 100UF	J 50WV 63WV 50WV		4 5 4

L:Scandinavia Y:PX(Far East, Hawaii)

Y:AAFES(Europe)

P:Canada T:England **E**:Europe X:Australia M:Other Areas

4: KR-A4050 5 : KR-A5050

⚠ indicates safety critical components

Parts without Parts No. are not supplied. Les articles non mentionnes dans le Parts No, ne sont pas fournis. Telle ohne Parts No, werden nicht geliefert.

New Parts

	Ref. No.	Addres			Description	Desti-	Re-
	参照番号	位道	Part Sfr		部品名/規格	nation 仕 向	marks 備考
	C225 C227-230 C231-234 C235,236 C301		*	CE04KW0J221M CQ92FM1H683J CK45FF1H223Z CK45CH1H103J CE04KW1C101M	ELECTRØ 220UF 6.3WV MYLAR 0.068UF J CERAMIC 0.022UF Z CERAMIC 0.010UF J ELECTRØ 100UF 16WV		
	CP1 ,2			KHR-RTOR25KO	MULTI-COMP 2.2X2 3W		
	E1 E2 E3 ,4 E5 E6			E13-0249-05 E13-0633-05 E13-0445-05 E70-0004-08 E11-0188-05	PHONO JACK PHONO PHONO JACK CD,TAPE1 PHONO JACK TAPE2,VIDE01,2 LGCK TERMINAL BOARD SPEAKERS MINIATUA PHONE JACK SYNCHORO		
	E7			E11-0223-08	PHONE JACK HEAD PHONES		
\$\frac{1}{4}\$\frac	F1 F1 F2 F3			F05-1623-05 F06-2021-05 F05-2525-05 F06-1022-05	FUSE SEMC® T1.6A/250V FUSE SEMC® T2A/250V FUSE SEMC® T2.5A/250V FUSE SEMC® T1A/250V	E	4 5
	-			J13-0084-08	FUSE CLIP		
∆	L201,202 L302 T1 T1		* *	L39-1303-08 L33-0379-08 L07-0825-08 L07-0828-08	INDUCTOR 0.15UH INDUCTOR 22UH TRANSFORMER TRANSFORMER	T E	4
	G	1 C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
	R3 R31 R32 R177 R217-222			RD14GB2E101J RD14GB2E101J RS14DB3D122J RD14GB2E100J RD14GB2E221J	FL-PR00F RD 100 J 1/4W FL-PR00F RD 100 J 1/4W FL-PR00F RD 1.2K J 2W FL-PR00F RD 10 J 1/4W FL-PR00F RD 220 J 1/4W		
	R229-232 R245-248 R249 R250 R253,254			RD14GB2E470J RD14GB2E221J RD14GB2E101J RD14GB2E470J RS14DB3A100J	FL-PROOF RD 47 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RS 10 J 1W		
	R255,256 VR201,202			RS14DB3A561J R12-1066-05	FL-PROOF RS 560 J 1W TRIM POT. 1KB IDLE ADJ		
Δ	K1 K2 ,3 SW2		*	S76-0034-08 S76-0035-08 S62-0032-08	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH IMPEDANCE SELECT		
	D1 D2 -5 D6 -13 D14 ,15 D16 ,17			1SS133 1N4002 1SS133 1N4002 1SS133	DIQDE DIQDE DIQDE DIQDE		
1	D25 ,26 D30 D30 D31 -36 D101-110			1SS133 DBF40C DBF60C 1N4002 1SS133	DIQDE DIQDE DIQDE DIQDE		4 5
-	D201,202 D203,204 D205 IC1			1SS133 1N4002 1SS133 MC7815C	DIODE DIODE DIODE IC(VOLTAGE REGULATOR/+15)		

L:Scandinavia K:USA P:Canada Y:PX(Far East, Hawaii) T:England E:Europe Y:AAFES(Europe) X:Australia M:Other Areas

4: KR-A4050 5: KR-A5050

⚠ indicates safety critical components.

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Tolle ohne Parts No. werden nicht geliefent.

NO.5

Desti- Re-Address New Parts No. Description Ref. No. 位置新 部品番号 部品名/規格 向備考 参照番号 IC(QP AMP X2) NJM4558DD IC101 IC(16CH BILATERAL SELECTOR SW) IC102 IC103 TC9164N NJM4558DD IC(QP AMP X2) IC(ANALOG SWITCH ARRAY) IC104 TC9162N IC105 TC9163N IC(BILATERAL SWITCH X16) IC106 BA6209N IC(MOTOR DRIVER) TRANSISTOR Q1 Q2 -5 Q6 Q8 2SD882 DIGITAL TRANSISTOR DTC114ES TRANSISTOR 2SA1274 TRANSISTOR 2SA933S Q10 2SA933S TRANSISTOR 9101-104 2SC2878 TRANSISTOR 9105,106 2SA933S TRANSISROR Q107-109 DTC114ES DIGITAL TRANSISTOR Q201-204 2SA992 TRANSISTOR TRANSISTOR Q205,206 2SC1845 Q207,208 25A992 TRANSISTOR Q209,210 2SC1845 TRANSISTOR Q211,212 2SC4137(V) TRANSISTOR Q213,214 TRANSISTOR 2SC2316 Q215,216 Q217,218 Q217,218 25A916 TRANSISTOR 2SC4467 TRANSISTOR 2SC4468 TRANSISTOR 9219,220 2SA1694 TRANSISTOR * 2SA1695 Q219,220 TRANSISTOR Q221,222 2SC1845 TRANSISTOR Q223,224 ZD1 2SC1740 TRANSISTOR MTZ3.9B ZENER DIODE ZD2 ,3 ZD4 MTZJ5.1B ZENER DIODE RD6.2ES(B2) ZENER DIODE MTZJ5.1B ZENER DIODE ZD6 ,7 ZD8 ,9 ZD10 ZD11 MTZJ16A ZENER DIODE MTZJ5.1B ZENER DIODE RD6.8ES(B2) ZENER DIQUE MTZJ8.2B ZENER DIODE FRONT UNIT(WP4115K1) LD901 B30-0413-05 LED(LTL4213(RED)) C903,904 CE04KW1C330M **ELECTRO** 33UF 16WV C905 CEO4KW1H4R7M **ELECTRO** 4.7UF 50WV 5.5WV C906 KHR-PX0001N3 BACKUP 0.1F C907 CEO4KW1A101M ELECTRO 100UF 10WV C908 CK45F1H103M CERAMIC 0.010UF C911,912 CK45FF1H103Z CERAMIC 0.010UF C913,914 CK45B1H223K CERAMIC 0.022UF C921,922 CE04KW1H010M 1.OUF ELECTRO 50WV C923,924 ELECTRO 47UF CEO4KW1C470M 16WV C925,926 CK45FF1H103Z 0.010UF CERAMIC C927,928 CQ92FM1H473J MYLAR 0.047UF C929,930 CC45SL1H221J CERAMIC 220PF C931,932 C933,934 CC45SL1H470J CERAMIC 47PF CQ92FM1H472J MYLAR 4700PF C935,936 CEO4KW1H010M **ELECTRO** 1.OUF 50WV C937,938 CC45SL1H470J CERAMIC 47PF C939,940 CE04KW1H010M ELECTRO 1.OUF 50WV

L:Scandinavia Y:PX(Far East, Hawaii)

Y:ANFES(Europe)

K:USA T:England X:Australia

P:Canada E:Europe M:Other Areas 4: KR-A4050

5: KR-A5050

A indicates safety critical components

✓ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Taile obne Parts No. werden nicht geliefent.

NO.6

Ref. No.	Address	New Parts	Parts No.	Description		Re- mark
参照番号	位置	新 新	部品番号	部品名/規格	仕 向	備考
C941-944			CE04KW1H100M	ELECTRO 10UF 50WV		
C946 C950			CK45FF1H103Z CK45F1H103M	CERAMIC 0.010UF Z CERAMIC 0.010UF M		
L901 L902 X901		*	L33-0380-08 L40-1091-17 L78-0209-05	INDUCTOR 10UH SMALL FIXED INDUCTOR 1UH RESONATOR 4.19MHz		
VR901,902		*	R06-3078-08	POTENTIOMETER BASS TREBLE		
SW901-926 SW927		*	S70-0008-08 S60-0024-08	TACT SWITCH KEY BOARD ROTARY SWITCH INPUT SELECTOR		
D901-909 D913-932 D933 D934 FLT901		*	1SS133 1SS133 MTZ5.1B MTZ2.7B 10-MT-58GK	DIODE DIODE DIODE ZENER DIODE FLUORESCENT INDICATOR TUBE		
IC901 IC902 IC903 Q901-903 Q904			UPD78044GF-021 PST529C NJM4558DD DTA144ES DTC143ES	IC(8BIT MICROPROCESSOR) IC(SYSTEM RESET) IC(0P AMP X2) DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
9905,906			2SC1740	TRANSISTOR		
A901	l	_	W02-1111-08	FRONT END UNIT		1
VOL	UME/LO	UDI	NESS UNIT (WP411	7K1) / MOTOR VOLUME UNIT (WP4	118KI)	
C159,160			CQ92FM1H273J	MYLAR 0.027UF J		
VR101 VR102		*	R29-5082-08 R10-5071-08	POTENTIOMETER 100KBX2 VOLUME POTENTIOMETER BALANCE		
SW1	<u></u>		S40-2376-05	PUSH SWITCH LOUDNESS	1	
			TUNEF			_
C801 C802,803 C804,805 C806 C807			CC45CH1H330J CK45B1H102K CK45F1H103M CE04KW1C470M CE04KW1H010M	CERAMIC 33PF J CERAMIC 1000PF K CERAMIC 0.010UF M ELECTRO 47UF 16WV ELECTRO 1.0UF 50WV		
C808 C809 C810 C811 C812			CE04KW1C470M CQ92FM1H223J CE04KW1H010M CK45F1H473Z CC45CH1H150J	ELECTRO 47UF 16WV MYLAR 0.022UF J ELECTRO 1.0UF 50WV CGRAMIC 0.047UF Z CERAMIC 15PF J		
C813 C814 C815 C816 C817,818			CE04KW1C4R7M CE04KW1C2R2M CE04KW1C3R3M CK45F1H103M CK45FF1H223Z	ELECTRO		
C819 C820 C821 C822 C823		*	CQ92FM1H153J CK45FF1H223Z CE04KW1C100M CE04KW1CR47M CK45F1H103M	MYLAR 0.015UF J CERAMIC 0.022UF Z ELECTRO 10UF 16WV CERAMIC 0.47UF 16WV CERAMIC 0.010UF M		
C824 C825-828 C829			CC45CH1H22OJ CK45F1H1O3M CEO4KW1C47OM	CERAMIC 22PF J CERAMIC 0.010UF M ELECTRO 47UF 16WV		

L:Scandmavia Y:PX(Far East, Hawaii) Y:/\AFES(Europe)

K:USA P:Canada T:England E:Europe M:Other Areas X:Australia

A indicates safety critical components.

PARTS LIST

New Parts

Pants without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefent.

NO.7

参照番号	4.	Parts						
	位:	置 新	部品番号	部品	名/規	格	nation 仕 向	mar 備a
			OFO AVIII IIO 1 ON	EL COTES	1 0110	FAUU		\vdash
830		1 1	CE04KW1H010M	ELECTRO	1.0UF	50WV	1	1
831-833	1		CC45CH1H101J	CERAMIC	100PF	J	1	1
834		- 1 1	CEO4KW1C4R7M	ELECTRO	4.7UF	16WV	1	1
835			CQ92FM1H103J	MYLAR	0.010UF	J	1	1
836			CE04KW1H010M	ELECTRO	1.0UF	50 WV		
837			CE04KW1CR22M	ELECTRO	0.22UF	16WV		
838,839	l		CEO4KW1H010M	ELECTRO	1.0UF	50WV	1	1
840	1		CEO4KW1C101M	ELECTRO	100UF	16WV		1
841	1		CC45SL1H561K	CERAMIC	560PF	K	1	1
842,843	1		CE04KW1C100M	ELECTRO	10UF	16WV		
844,845			CC45SL1H221J	CERAMIC	220PF	J		1
846,847			CEO4KW1C2R2M	ELECTRO	2.2UF	16WV	1	1
848,849	l		CQ92FM1H392J	MYLAR	3900PF	J	1	1
850			CK45F1H103M	CERAMIC	0.010UF	M	1	
851			CEO4KW1C470M	ELECTRO	47UF	16WV		
050			024551111074	0001870	0.01005			
852			CK45F1H103M	CERAMIC	0.010UF	M	1	
853,854			CC45CH1H220J	CERAMIC	22PF	J	ì	
855-858	}		CK45B1H471K	CERAMIC	470PF	K	ł	
859	l	*	CE04KW1COR1M	ELECTRO	0.1UF	16WV	1	
860			CK45F1H103M	CERAMIC	0.010UF	м		
861			CEO4KW1C470M	ELECTRO	47UF	16WV		
862	l		CK45F1H103M	CERAMIC	0.010UF	M	1	
863,864			CEO4KW1C100M	ELECTRO	10UF	16WV	1	1
865,866	1		CK45F1H103M	CERAMIC	0.010UF	M	1	1
868			CC45SL1H270J	CERAMIC	27PF	j	1	1
871			CC45SL1H271J	CERAMIC	07000	.1		
872	1		CE04KW1C100M		270PF		1	1
873		1 1		ELECTRO	10UF	16WV	1	1
874,875			CK45F1H103M	CERAMIC	0.010UF	M	1	
			CC45SL1H270J	CERAMIC	27PF	J	1	
876			CK45F1H103M	CERAMIC	0.010UF	М		
877,878			CE04KW1C100M	ELECTRO	10UF	16WV		
879,880	1		CK45F1H103M	CERAMIC	0.010UF	M	1	1
•								
ACK801			E70-0023-08	TERMINAL BOA	RD ANTEN	NA		
F801,802	ĺ	*	L72-0575-08	CERAMIC FILT	ER	10.7MHz	1	
801	1		L40-1091-17	SMALL FIXED	INDUCTOR	1UH		1
802	1	*	L39-1322-08	COIL			1	İ
803		*	L33-0381-08	SMALL FIXED	INDUCTOR	1 mH	1	1
804		*	L30-0904-08	IFT AM	IMPOUTUN	1		
805			L30-0905-08	IFT FM				
306	1	*	L30-0906-08					
807	l	:	L39-1323-08	IFT FM			1	
	1	*		COIL			1	
308,809	l	*	L35-0070-08	COIL			1	
310			L40-1091-17	SMALL FIXED	INDUCTOR	1 UH		
811,812		*	L33-0380-08	SMALL FIXED	INDUCTOR	10UH		
801	1	*	L78-0616-08	RESONATOR	456kH	z	1	
802		*	L77-2126-08	CRYSTAL	7.200	MHz		
303	1	*	L77-2127-08	CRYSTAL	4.332		ł	
304		*	L78-0617-08	RESONATOR	4.00M			
824			RD14GB2E101J	FL-PROOF RD	100	J 1/4W		
827			RD14GB2E101J	FL-PROOF RD	100	J 1/4W	1	1
840			RD14GB2E101J	FL-PROOF RD	100			1
B51			RD14GB2E101J			J 1/4W	1	
366				FL-PROOF RD	47	J 1/4W	1	1
,,,,			RD14GB3D221J	FL-PROOF RD	220	J 2W	1	1

L:Scandinavia

Y:AAFES(Europe)

Y:PX(Far East, Hawaii)

K:USA P:Canada

T:England

E:Europe M:Other Areas

A indicates safety critical component.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefent.

NO.8

KR-A4050/5050

Ref. No.	Address	New Parts	Parts No.	Description	nation	Re-
参照番号	位置	新	部品番号	部品名/規格	仕 向	備考
R801 R802 R803			R12-1053-05 R12-3083-05 R12-6663-05	TRIM POT. 4.7KB AM TUNE LEVEL TRIM POT. 47KB FM TUNE LEVEL TRIM POT. 330KB SEPARATION		
301-809 310 311 312 3801			1SS133T RD5.1ES(B2) 1SS133T RD13ES(B2) LA1266	DIODE ZENER DIODE DIODE ZENER DIODE IC(AM/FM 1F)		
802 803 804 805 806		*	LA3401 LC7218 LM258N TDA7330A LC6543H-4600	IC(FM MPX) IC(PLL SYNTHESIZER) IC IC(RDS DEMODULATOR) IC		
301 302 303 304 305			2SC1740S 2SA933S 2SC1740S 2SC31940 2SC1845F	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
806-808 809,810 811 812			2SC1740S 2SA933S 2SD2061E NJM78L05A	TRANSISTOR TRANSISTOR TRANSISTOR IC(VOLTAGE REGULATOR/ +5V)		
UNER801			W02-1041-15	TUNER ASSY		

L:Scandinavia

Y:PX(Far East, Hawaii)

K:USA

P:Canada

Y: AAFES(Europe)

T:England E:Europe X:Australia M:Other Areas

♠ indicates safety critical components.

SPECIFICATIONS

(For the U.S.A. and Canada)

[AUDIO section] Rated power output (FTC) STEREO MODE

100 watts per channel minimum RMS, both channels driven, at $\,$ 8 $\,\Omega$ from 20 Hz to 20,000 Hz with no more than 0.06 % total harmonic distortion.

Total harmonic distortion
Signal to noise ratio (IHF'66)
PHONO (MM)73 dB
LINE (CD,TAPE, VIDEO)100 dB
Input sensitivity / impedance
PHONO (MM)2.5 mV / 47 kΩ
LINE (CD, TAPE, VIDEO)200 mV /47 kΩ
Tone control BASS± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 100 Hz)
Loudness control (volume at -30 dB level)
+ 9 dB (100 Hz)
[FM tuner section]
Tuning frequency range87.5 MHz \sim 108 MHz Usable sensitivity (MONO at 75 Ω)0.95 μ V / 10.8 dBf
50 dB quieting sensitivity (at 75 Ω)
MONO2.0 μ V / 17.2 dBf
STEREO25.0 μ V / 39.2 dBf
Total harmonic distortion (at 1 kHz)
MONO
STEREO
Signal to noise ratio (at 1 kHz)
MONO
STEREO73 dB (65 dBf input)
Stereo separation 1 kHz45 dB
Selectivity (± 400 kHz)50 dB
Frequency response (30 Hz ~ 15 kHz)
+ 0.5 dB, -2.0 dB
[AM tuner section]
Tuning frequency range 530 kHz ~ 1,700 kHz Usable sensitivity 16 μ V / (400 μ V/m)
Signal to noise ratio (at 30% mod. 1mV input)50 dB
Total harmonic distortion
Selectivity23 dB
[General]
Power consumption2,5 A
AC outlet
SWITCHED2: (Total 150W max.) Dimensions
H: 129 mm (5-1/16")
D: 379 mm (14-15/16")
Weight (Net) 10.2 kg (22,5 lb)

(For other countries)					
[AUDIO section]					
Rated power output					
(IHF'66) From 20 Hz to 20,000 Hz, 0.06 % T.H.D.					
at 8 Ω105 W+105 W					
Total harmonic distortion					
0.03 % (1 kHz, 50 W, 8 Ω)					
Signal to noise ratio					
(IHF'66)					
PHONO (MM)73 dB					
LINE (CD,TAPE, VIDEO)100 dB					
Input sensitivity / impedance					
PHONO (MM)2.5 mV / 47 k Ω					
LINE (CD, TAPE, VIDEO)200 mV / 47 k Ω					
Tone control					
BASS± 10 dB (at 100 Hz)					
TREBLE ± 10 dB (at 10 kHz)					
Loudness control (volume at -30 dB level)					
+ 9 dB (100 Hz)					
[FM tuner section]					
Tuning frequency range87.5 MHz ~ 108 MHz					
Usable sensitivity (MONO at 75 $\Omega)$ 0.95 μ V / 10.8 dBf					
50 dB quieting sensitivity (at 75Ω)					
MONO2.0 μ V / 17.2 dBf					
STEREO25,0 μ V / 39.2 dBf					
Total harmonic distortion (at 1 kHz)					
MONO					
STEREO					
Signal to noise ratio (at 1 kHz)					
MONO					
STEREO					
Stereo separation					
1 kHz45 dB Selectivity (± 400 kHz)50 dB					
Frequency response (30 Hz ~ 15 kHz)					
+ 0.5 dB, - 2.0 dB					
+ 0.5 db, - 2.0 db					
[AM tuner section]					
Tuning frequency range					
9 kHz step531 kHz ~ 1,502 kHz					
10 kHz step530 kHz ~ 1,510 kHz					
Usable sensitivity16 μ V / (400 μ V/m)					
Signal to noise ratio (at 30% mod. 1mV input)50 dB					
Total harmonic distortion					
Selectivity23 dB					
[General]					
Power consumption230 W					
AC outlet					
CHITCHED 2: /Total1EO W					

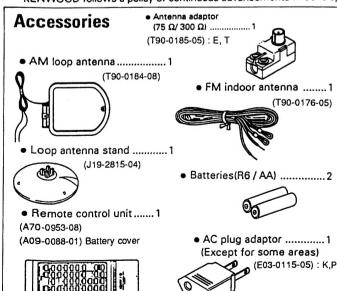
SWITCHED2: (Total 150 W rmax.) Dimensions W: 440 mm

H: 129 mm D: 379 mm

SPECIFICATIONS

For KR-A5050	For KR-A4050
Audio section	Audio section
Rated power output at 1kHz, 8 Ω (DIN)	Rated power output at 1kHz, 8 Ω (DIN)
FM Tuner section	FM Tuner section
Tuning frequency range	Tuning frequency range
AM Tuner Section	AM Tuner Section
Tuning frequency range .531 kHz ~ 1,602 kHz Usable sensitivity .12 μV / (400 μV / m) Total harmonic distortion 0.3 % Signal to noise ratio (at 30 % mod. 1 mV input) .50 dB Selectivity .30 dB	Tuning frequency range
General	General
Power consumption	Power consumption

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.



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